

Logistics Management Institute

# The Quad-Service Satellite Transmitting and Receiving System for Medical Supply Support

A Battlefield Interoperability and  
Communications System Prototype

Volume II – User Documentation

DL205-01LN1



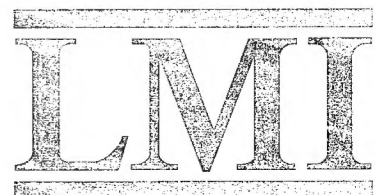
John Lycas  
Roger E. Miller

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13. ABSTRACT (Maximum 200 words)  This report documents the design and development of a prototype information communications system for quad-service use in a theater of operations. The prototype was designed to allow seamless integration of legacy information systems operated by each of the four services, and is based on a combination of software interfaces and commercial satellite communications hardware. The QSTARS-MS <sup>2</sup> prototype has been tested in a variety of garrison and deployment settings, including extensive use in Somalia and the former Yugoslav republics. The prototype demonstrates the feasibility of achieving joint interoperability through rapidly designed interfaces between legacy information systems. The prototype also offers world-wide, portable, and affordable satellite communications capability through the use of the International Maritime Satellite network.			
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August 1994

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John Lycas  
Roger E. Miller

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# Preface

This document is designed to provide descriptive documentation on the Quad-Service Satellite Transmitting and Receiving System for Medical Supply Support (QSTARS-MS<sup>2</sup>), a prototype communications system for portable, worldwide medical use by military forces. LMI Report DL205-01R1, *The Quad-Service Satellite Transmitting and Receiving System for Medical Supply Support: A Battlefield Interoperability and Communications System Prototype*, provided a historical review of the QSTARS-MS<sup>2</sup> development process, an analysis of the QSTARS-MS<sup>2</sup> technical architecture, and recommendations relating to the further development and implementation of the prototype. This report provides user-level documentation on the use of the prototype and its interfaces with the medical logistics information systems in use within the four military services. Proponency for the QSTARS-MS<sup>2</sup> program will rest with the U.S. Army Medical Materiel Agency, Fort Detrick, Md.



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- Appendix F. Security Considerations in the Transmission of Logistics Information
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- Appendix I. MEDLOG Jr. Operating Instructions
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## APPENDIX A

# The Defense Automated Message Exchange System (DAMES)

# The Defense Automated Message Exchange System (DAMES)

This appendix provides operating procedures and guidelines for users of the DAMES electronic-message handling system.

## **DAMES COMMUNICATIONS MENU**

### **BACKGROUND**

The Defense Automatic Addressing System Office (DAASO) distributes the DAASO Automated Message Exchange System (DAMES). The DAMES software is acquired by contacting DAASO at DSN 986-5914 of COMM 513-296-5914, and requesting the software. DAMES is available at no cost. A sample cover letter is attached, and can be faxed to DAASO to expedite the processing.

When your site is ready to transfer requisitions electronically, to DAASO, the following items are required:

1. A 1200 baud AT compatible modem.  
Recommended modems are:
  1. Zenith 2400.
  2. CTS 2424ADH Datacomm.
  3. Multitech 224E (series)
2. A commercial phone line.
3. GW-BASIC-3.2, or BASICA.
4. The DAMES software.
5. A DAASO account, and Routing Indicator.

To obtain the DAMES software, account, and Routing Indicator (R/I) each site must FAX (513-296-5758) or write DAASO requesting an account. The letter or FAX must be on command letterhead. Each site should check their mail box once per week to obtain status on the items ordered. The easiest way to do this, is to transmit a blank SUP1348.TXT file, and then process (print out) the RECEIVE file.

For help with the DAMES software, if you can not connect, call the Detachment (804)-445-9595 or call DAASO in Dayton (513)-296- 5914.

## DAMES CONFIGURATION

### USER MANUAL

**BACKGROUND** The DAMES configuration must be modified in order to use the international maritime satellite (INMARSAT) for communications. The specific fields that need to be modified are the DIALING COMMAND, SUFFIX COMMAND, AND THE COMPORT TIMEOUT data fields. The correct values are shown below:

**Dial Command** ----->ATC1F1X4DT001,

**Suffix Command** ----->#

**Comport Timeout (Sec's)**->60

The COUNTRY CODE for the USA is 001. The suffix command '#' indicates 'end of string' to the satellite's computer. The COMPORT TIMEOUT is increased to 60 seconds in order to allow for satellite uplink time.

### PROCEDURE:

The user should be logged in, and at the UTILITIES MENU. From the UTILITIES MENU the user should select menu option 2. COMMUNICATIONS MENU.

11/23/93

LOADING - UTIL MENU 2.1

Tuesday

#### UTILITY MENU

1. VIEW REPORTS ALREADY CREATED
2. COMMUNICATIONS MENU
3. GENERATE BARCODES
4. SPECIAL FILE UTILITIES
5. MM 2.2 SPECIAL FILE UTILITIES

USE UP AND DOWN ARROW KEYS TO HIGHLIGHT ITEM AND PRESS <RETURN>

### RESPONSE:

The COMMUNICATIONS MENU shown below will display:

11/23/93

LOADING - UTIL MENU 2.1

Tuesday

COMMUNICATIONS MENU

1. DAMES COMMUNICATIONS
1. VIEW 2. EDIT SUP1348.TXT FILE
2. COMM 3. STATUS OF ORDERED ITEMS
3. GENE 4. COPY TRANSMIT FILE TO FLOPPY
4. SPEC 5. S.A.L.T.S.
5. MM 2 6. PROCOMM
7. DOWNLOAD FROM SCANNER

USE UP AND DOWN CURSOR KEYS TO HIGHLIGHT ITEM AND PRESS <RETURN>

**PROCEDURE:**

Use the cursor keys to move the selection bar to menu option 1. DAMES COMMUNICATIONS.

**RESPONSE:**

The following screen will display:

STD Version 2.02

- Build/Create Messages Menu
- 2 Communications Menu (Transmit/Receive Messages)
- 3 TRANSMIT/RECEIVE File Processing
- 4 Help (Instructions/Support)
- 5 Utilities Menu
- 6 Exit to GW-BASIC (basica) Interpreter
- 7 View GW-BASIC Error Codes, explanations
- 8 Exit to DOS

Select an option by number or use keys to select, then press RETURN

user id RA767AA

**PROCEDURE:**

Use the cursor keys to move the selection pointer to menu option 5 Utilities menu.

**RESPONSE:**

The following Utilities Menu will display.

Utilities Menu

```
View the DAMES operating manual
2 Print the DAMES operating manual
3 Journalize a message file
4 Sort a file (Status Transactions)
5 PLAD File Manager
6 View/Edit user configuration
7 View/Edit modem (Async) configuration
```

Select an option by number or use keys to select, then press RETURN  
Esc=Main Selection Menu

user id RA767AA

PROCEDURE:

Move the Selection pointer to menu option 7. View/Edit modem (Async) configuration.

**RESPONSE:**

The following screen will display:

Initializes the MODEMSET.RND file and allows changes to the fields below.

```
# 1 Phone No. at DAAS -->2960407
# 2 Phone No. at DAAS -->2965082
# 3 Phone No. at DAAS -->2968644
# 4 Phone No. at DAAS -->2968645
# 5 Phone No. at DAAS -->2968646
# 6 Phone No. at DAAS -->2960407
# 7 Phone No. at DAAS -->2965082
# 8 Phone No. at DAAS -->2968644
# 9 Phone No. at DAAS -->2968645
#10 Phone No. at DAAS -->2968646
Area-Code at DAAS ----->513
Max No. of Dial Tries -->10
Com-Port (1,2,3,4) ----->2
Speed (bps/ baud) ----->1200
Initializing Command --->ATEQVH S7=55
Dial Command ----->ATC1F1X4DT001,
Suffix Command ----->#
Comport Timeout (Sec's)->60
```

\* ENTRY MODE \*

F1 = Install the configuration shown above.  
Esc = Exit to Main Selection Menu. (No changes)

**PROCEDURE:**

Use the cursor keys and edit the data as shown below.

Dial Command ----->ATC1F1X4DT001,  
Suffix Command ----->#  
Comport Timeout (Sec's)->60



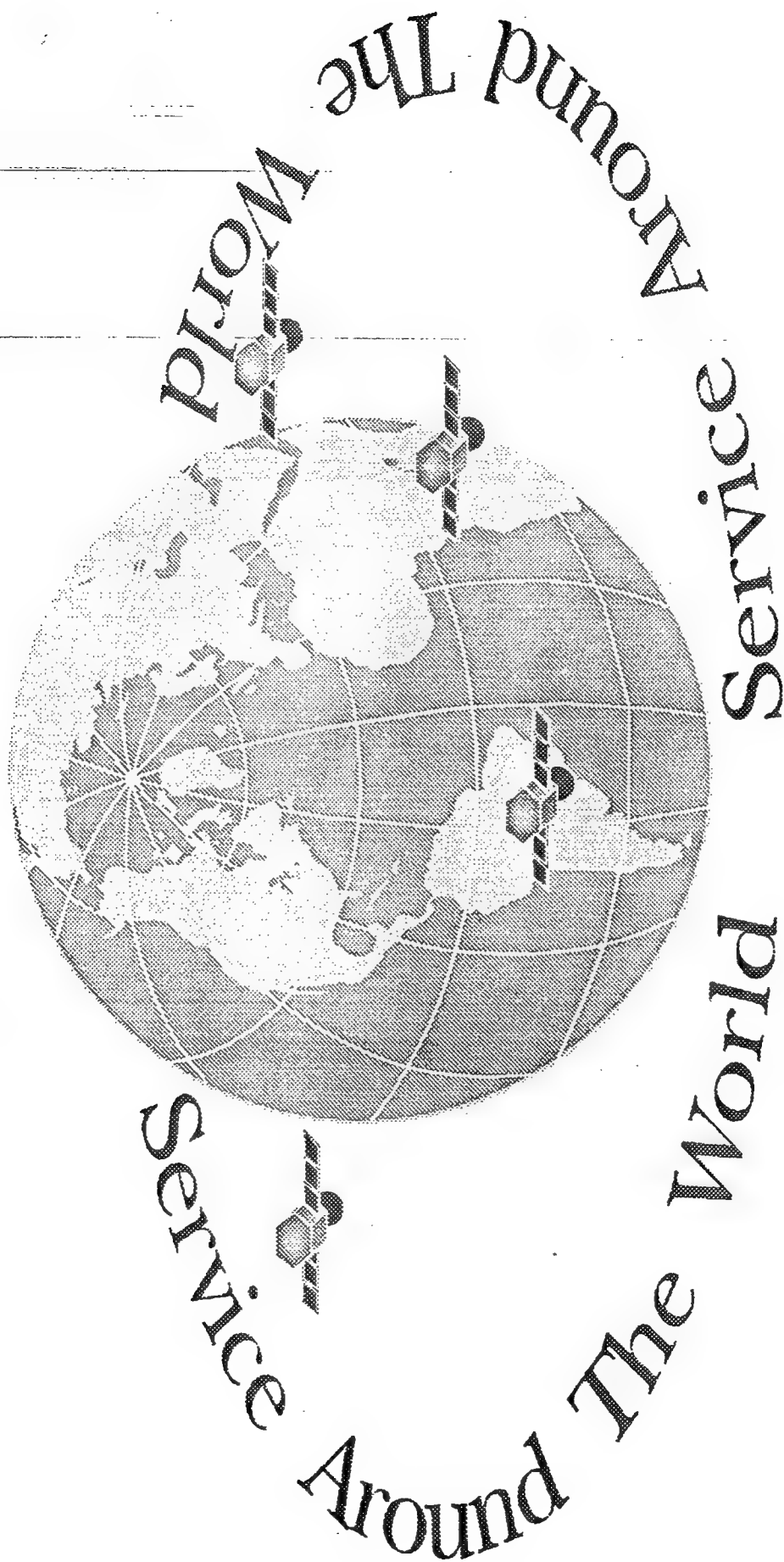
## APPENDIX B

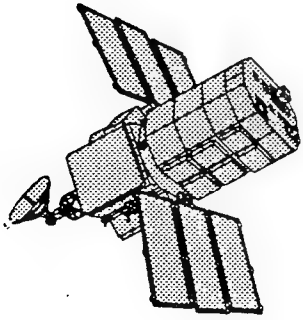
# The Streamlined Alternative Logistics Transmission System (SALTS)

# The Streamlined Alternative Logistics Transmission System (SALTS)

SALTS, an U.S. Navy initiative to facilitate logistics communications for users worldwide, is described in this appendix. For information on specific interface procedures between SALTS and application systems at the military service level, please refer to the appropriate appendix for the system in question.

# SATTS



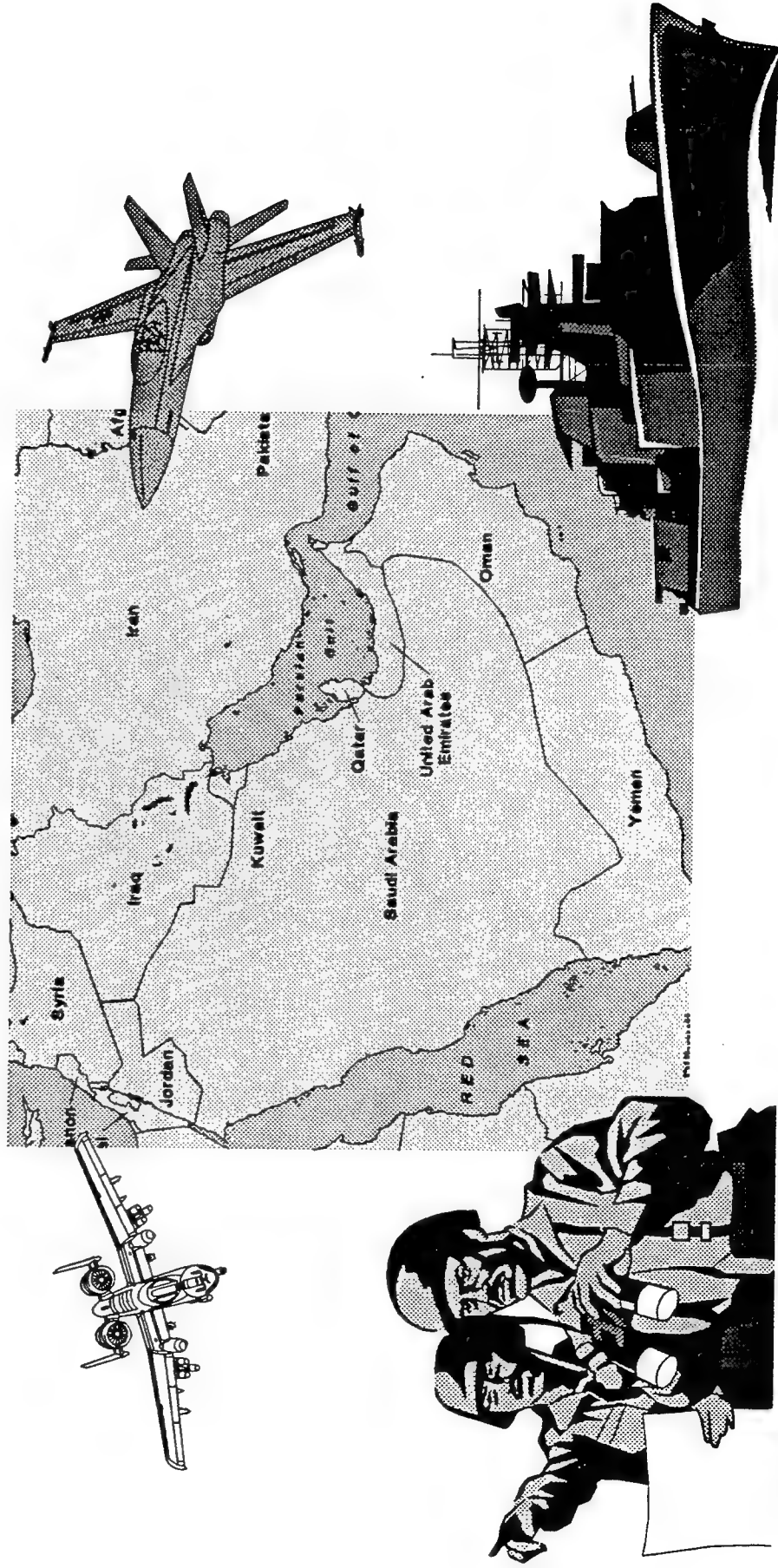


# **S Streamlined A Alternative L Logistics T Transmission S System**

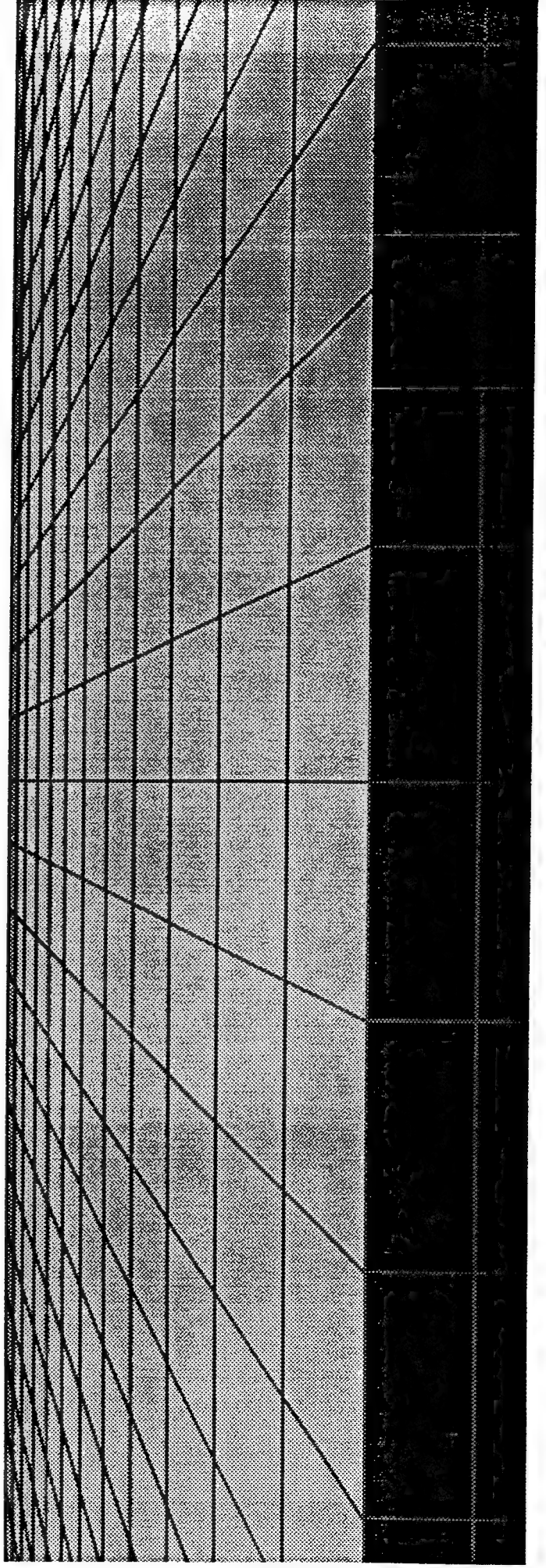
**... an information subsystem**

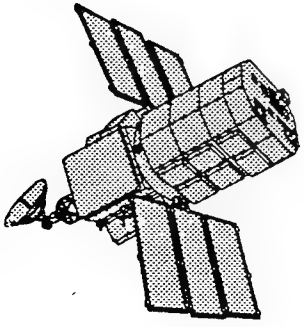


**SALTS was conceived in February 1991 in order to allow Supply Officers involved in Operations Desert Shield and Desert Storm to pass logistics information quickly and easily.**



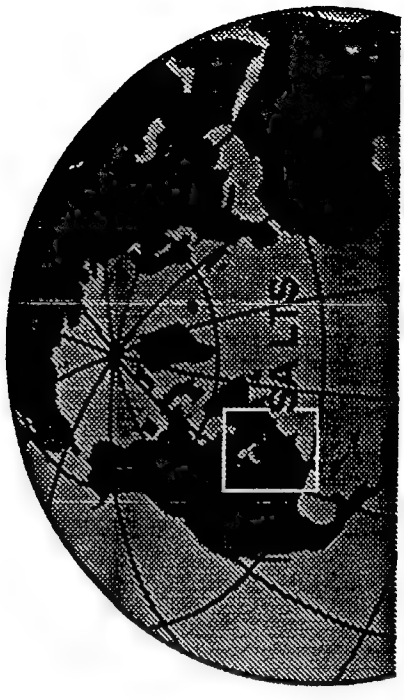
# HOW SALTS WORKS





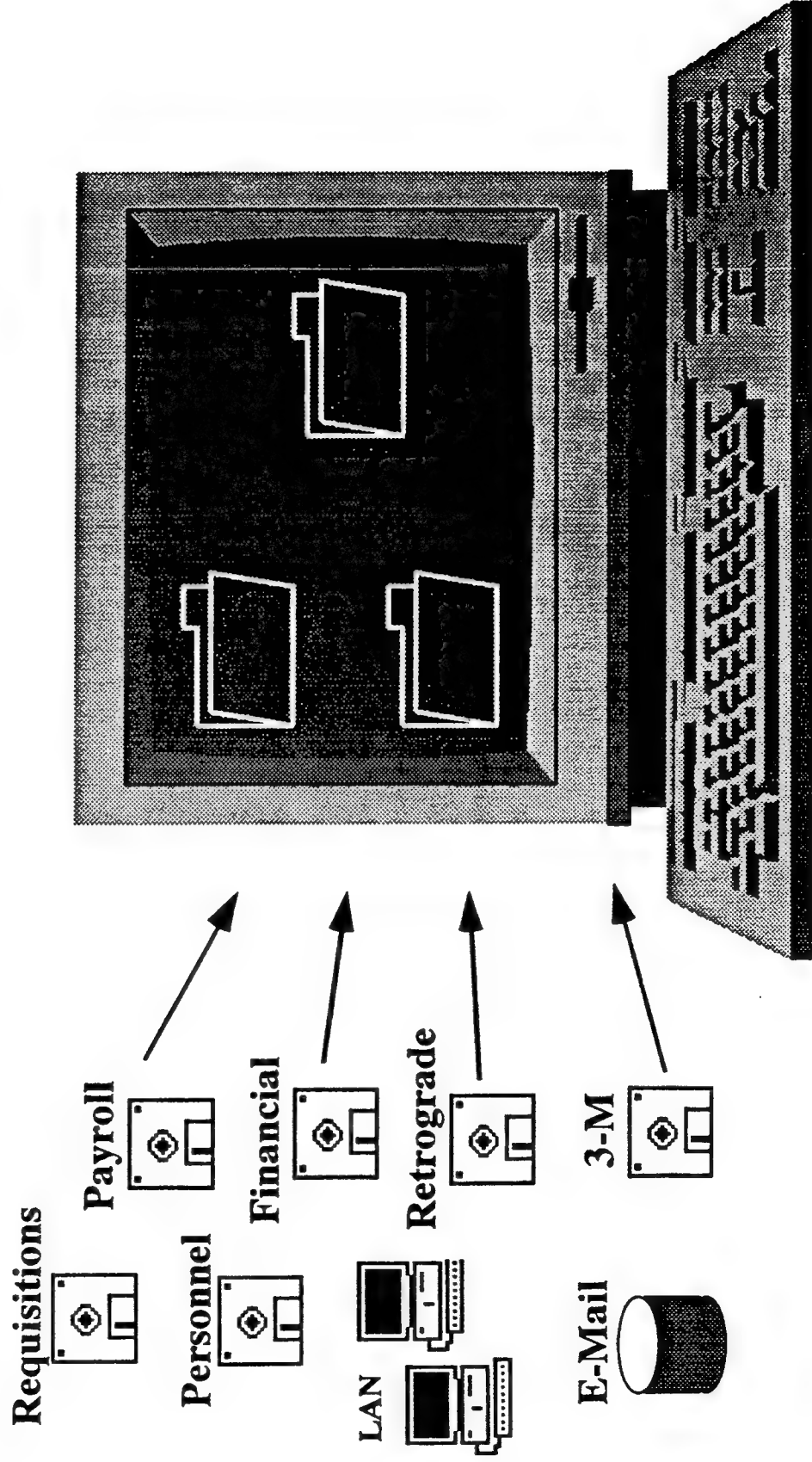
## What Does SALTs Do?

- SALTs:**
- Accumulates
  - Compresses
  - Addresses
  - Encrypts
  - Transmits Data



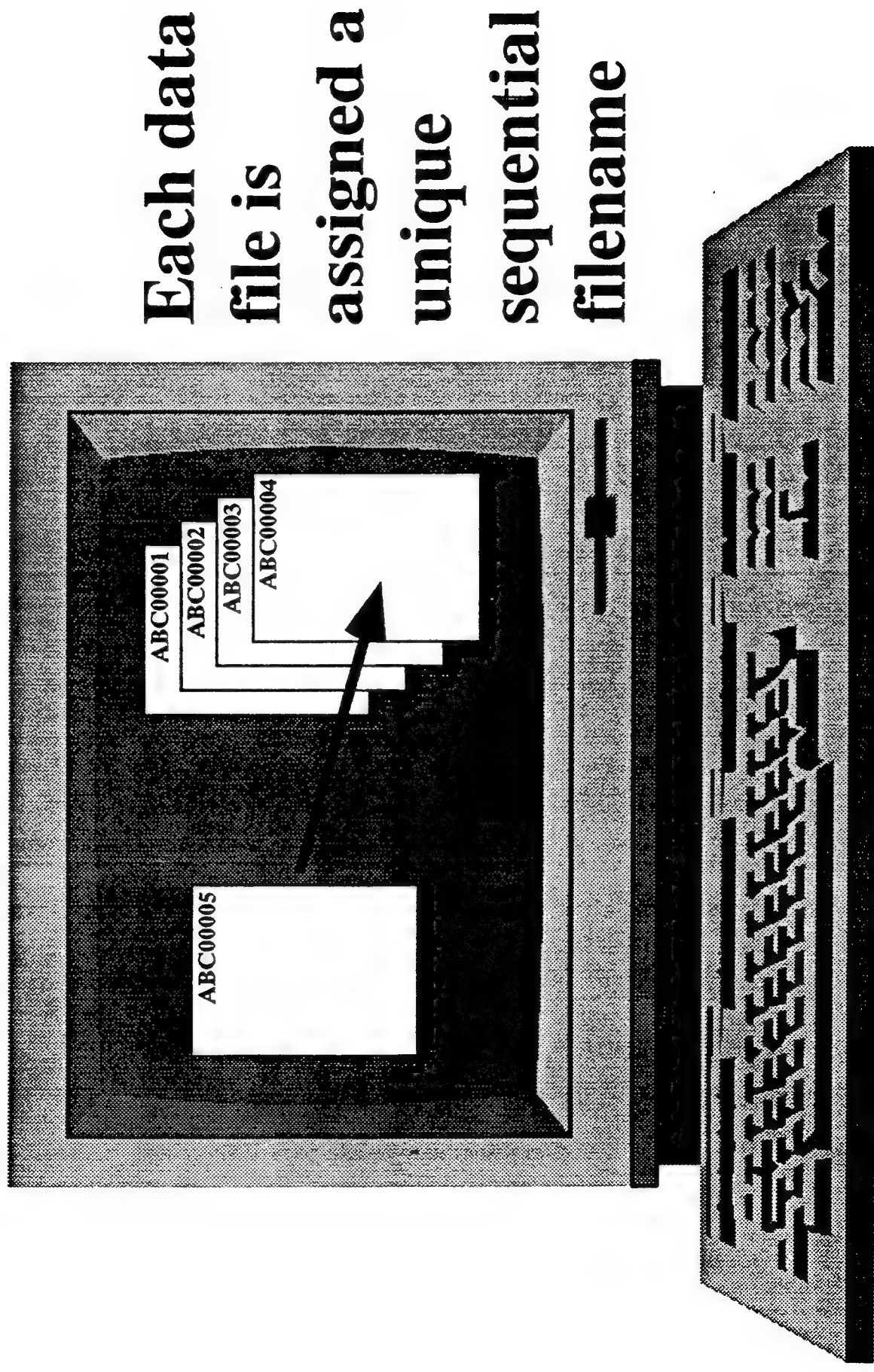
# Data Accumulation in SALTs

Data is input from various sources  
and filed within information "packets"



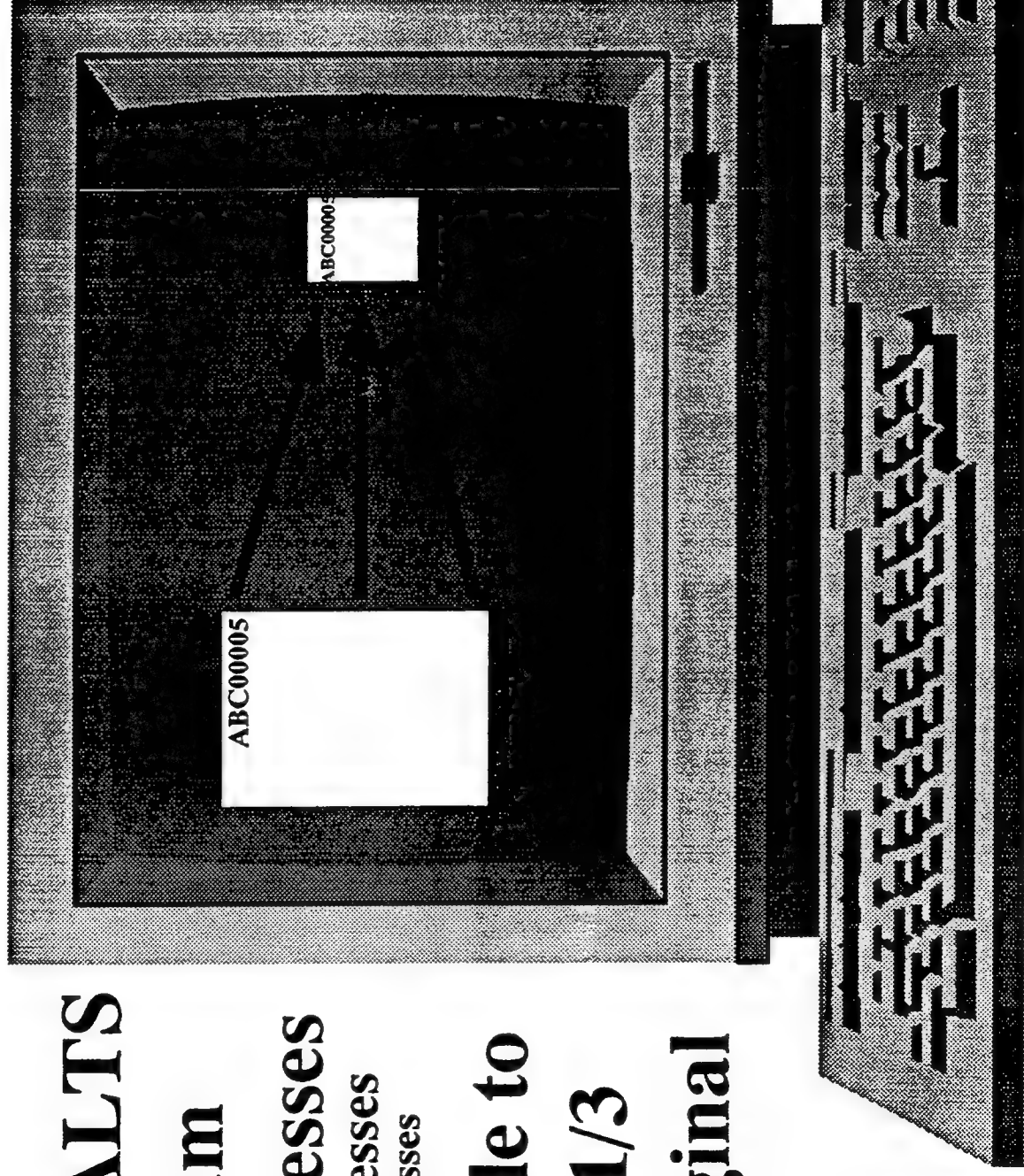


# File Addressing in SALTS



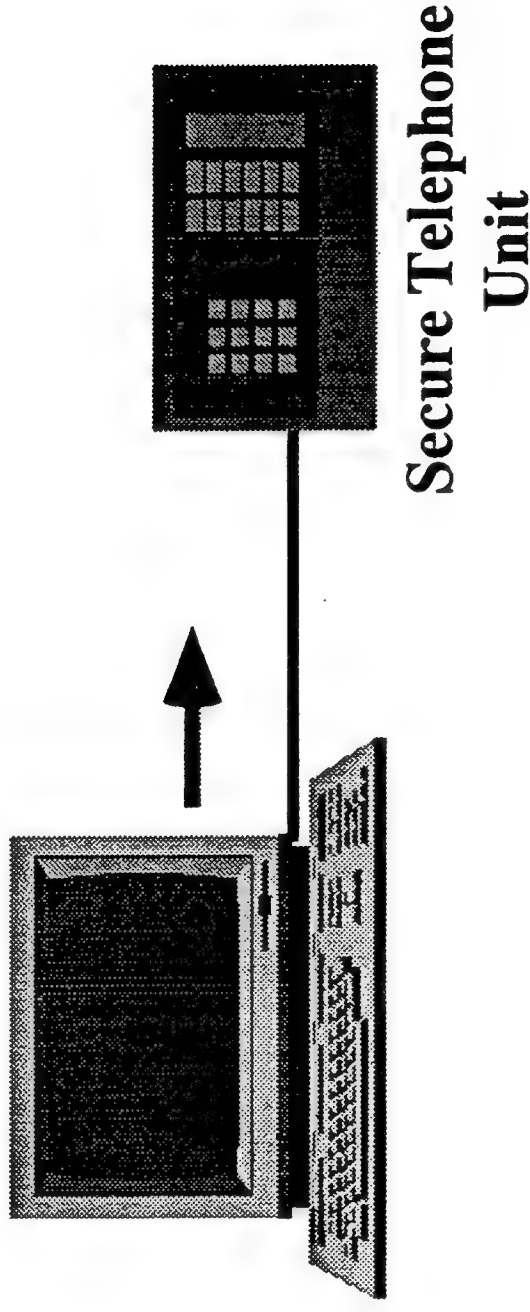
# Data Compression in SALTS

The SALTS  
program  
compresses  
compresses  
compresses  
each file to  
about 1/3  
its original  
size



# Data Transmission in SALTs

The compressed data is then sent to a special unit for encryption...

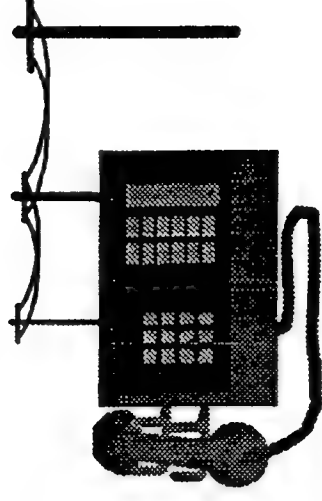


**...and then is transmitted to SALTS Central  
located at ASO in Philadelphia PA in any of  
four ways...**

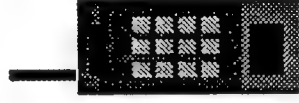
**Satellite**



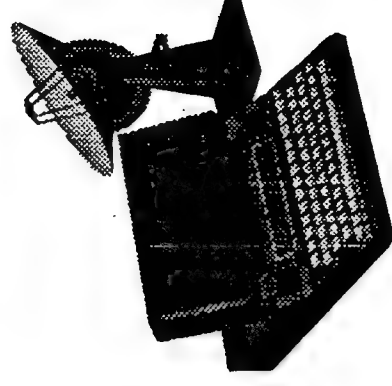
**Telephone (Landline)**



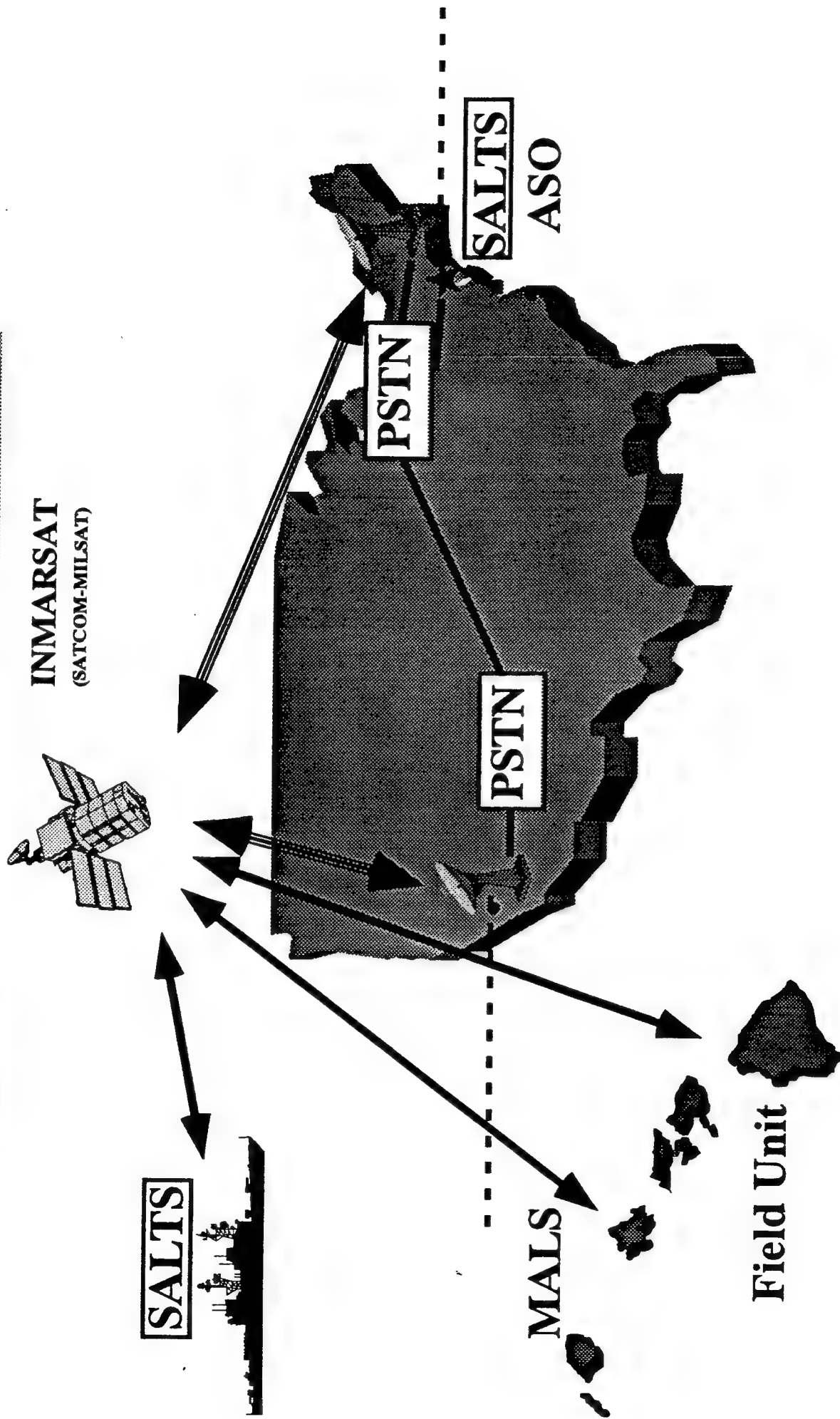
**Cellular**



**Portable Field Unit**

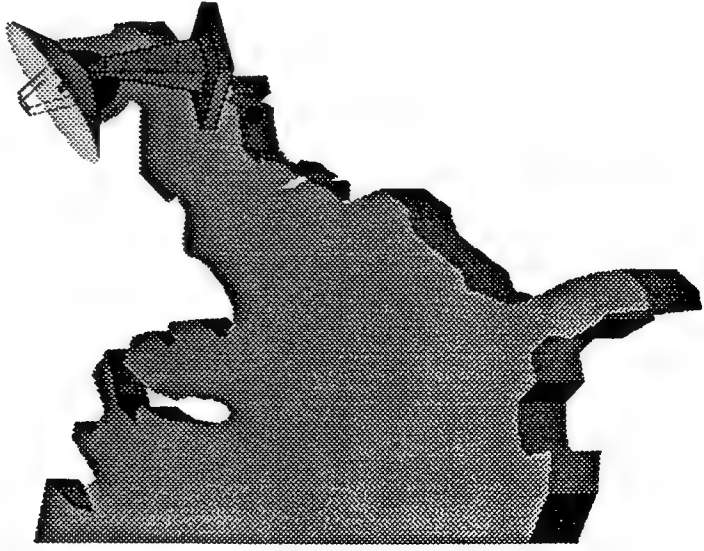
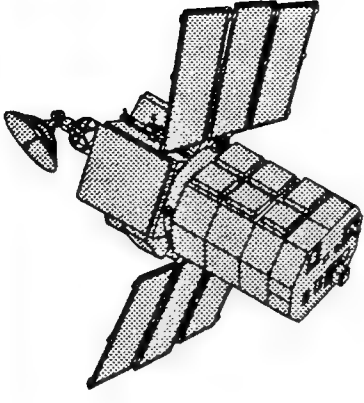


# SALTS via Satellite



# **SALTS via Satellite**

## **Atlantic or Mediterranean Sea Areas**

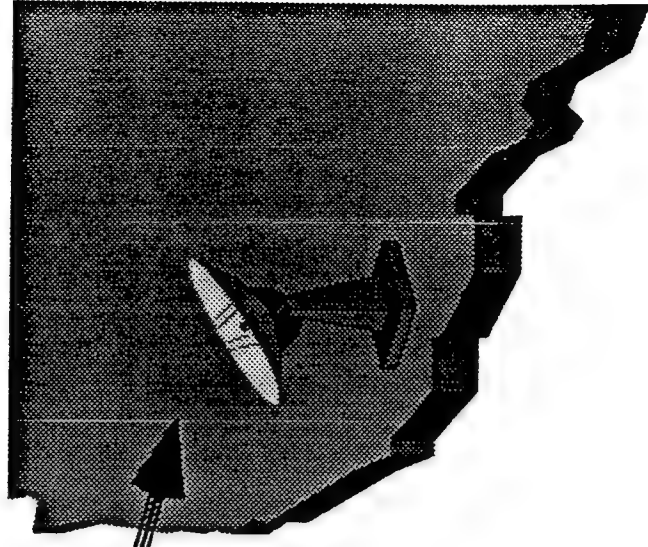
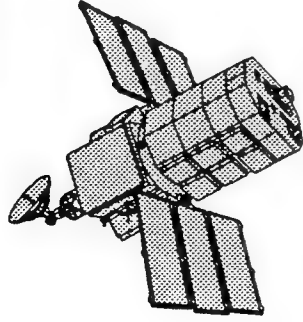


**The satellite transfers  
the data to the  
communication station at  
Southbury, Connecticut...**



# **SALTS via Satellite**

## **Pacific Ocean Area**



**... to Santa Paula, California...**

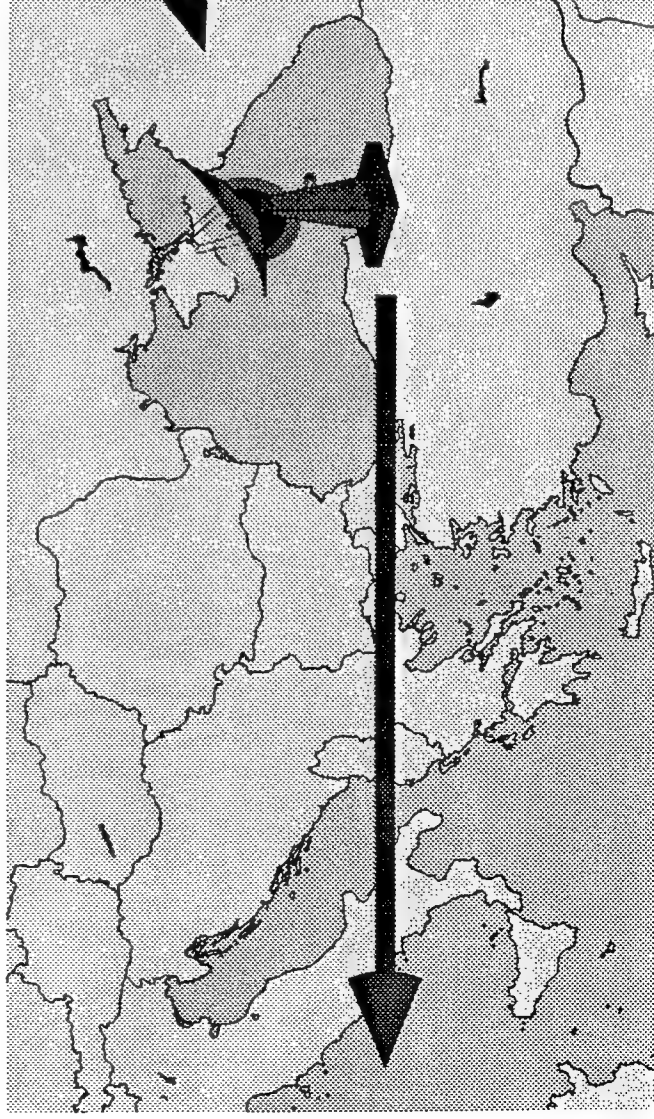
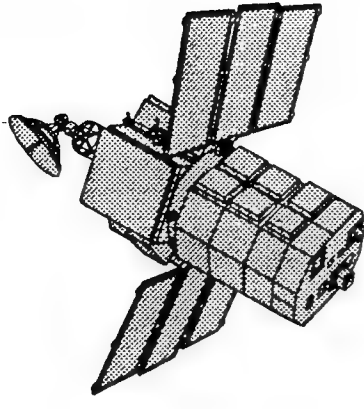


# **SALTS via Satellite**

## **Indian Ocean and Persian Gulf Areas**



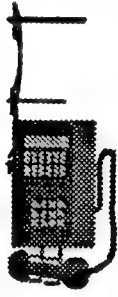
**... to Ata, Turkey then via  
landline to Southbury, Conn.**



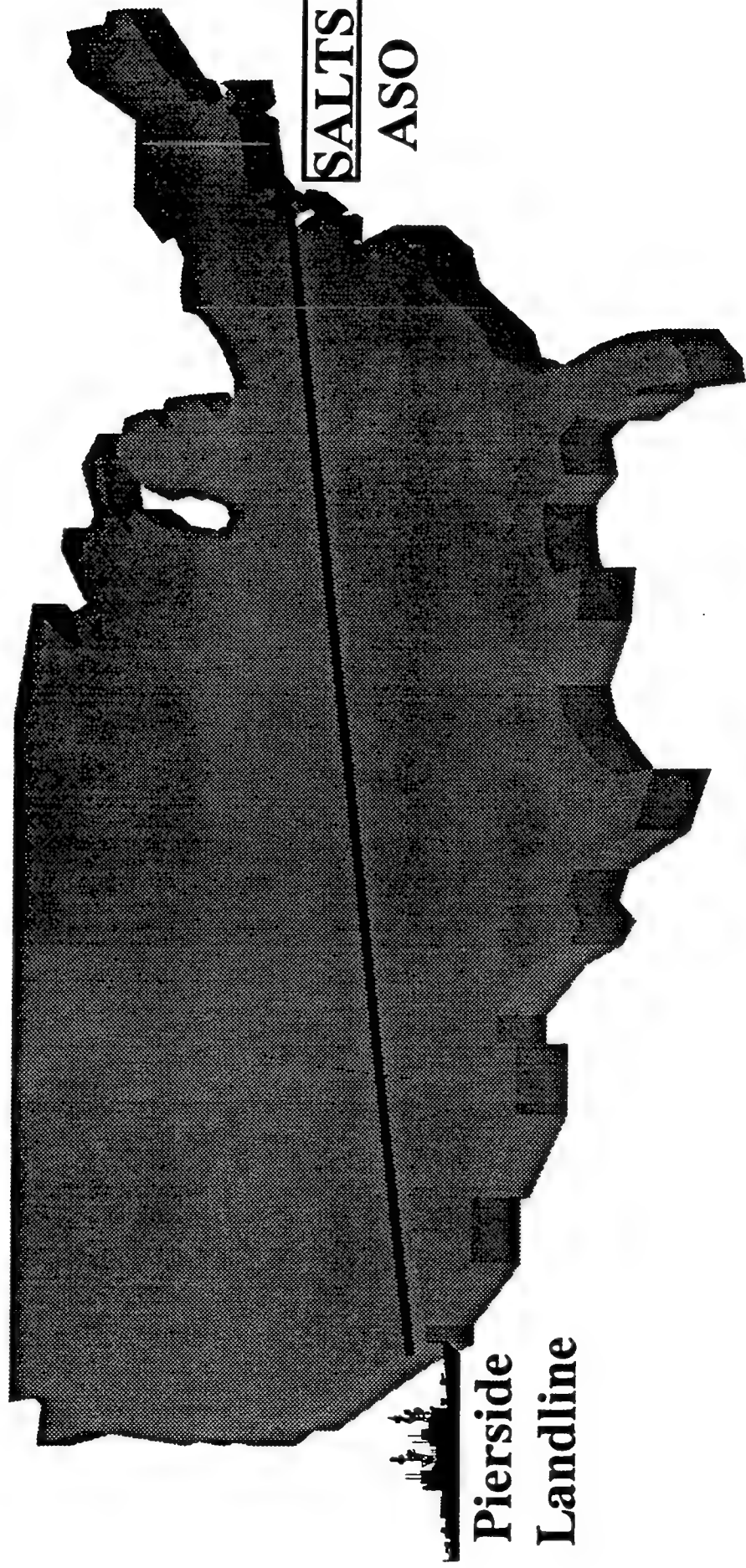
**A direct fiber-optic  
trunk is scheduled  
for February 1992**



# SALTS via Telephone



...or by sending the data over  
telephone landlines, if inport...



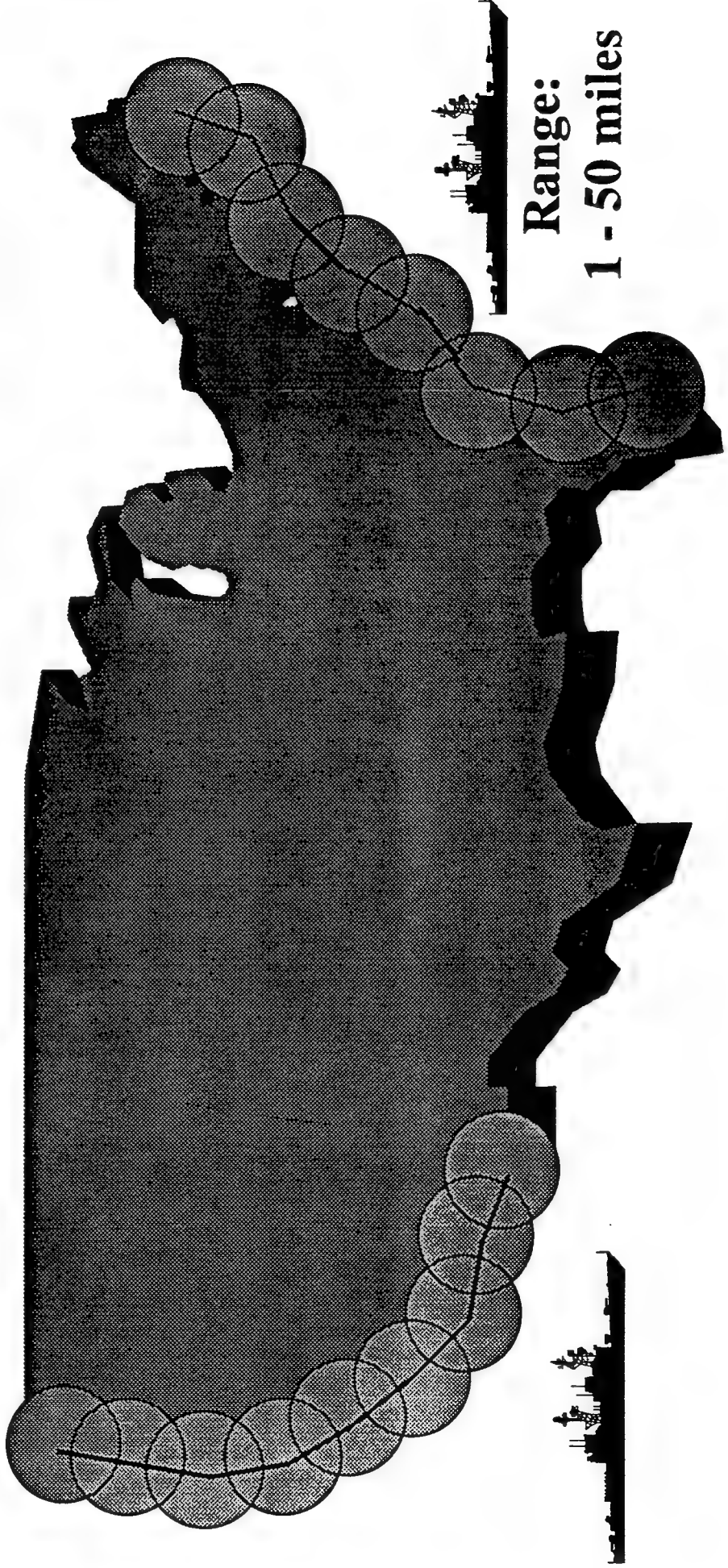
Pierside  
Landline

SALTS

ASO

## **SALTS via Cellular Telephones**

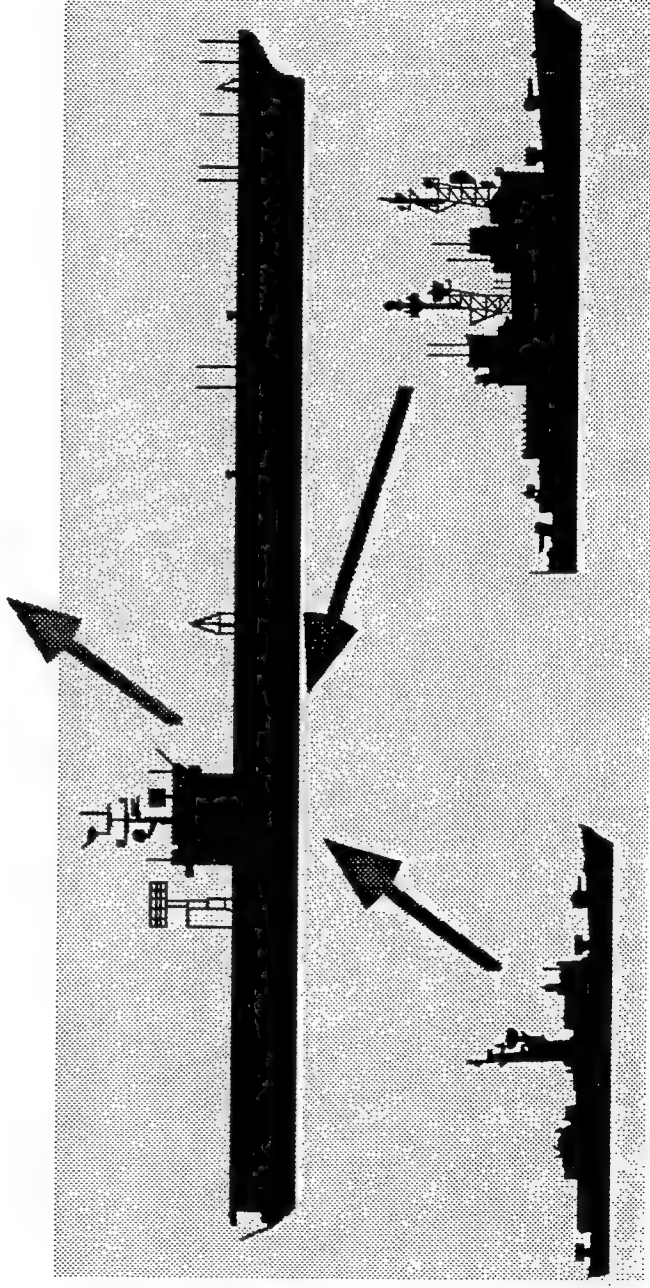
**Ships can use the system when sailing in local operating areas using cellular telephones instead of satellite communications.**



**Range:  
1 - 50 miles**

# Cellular Telephones on the High Seas

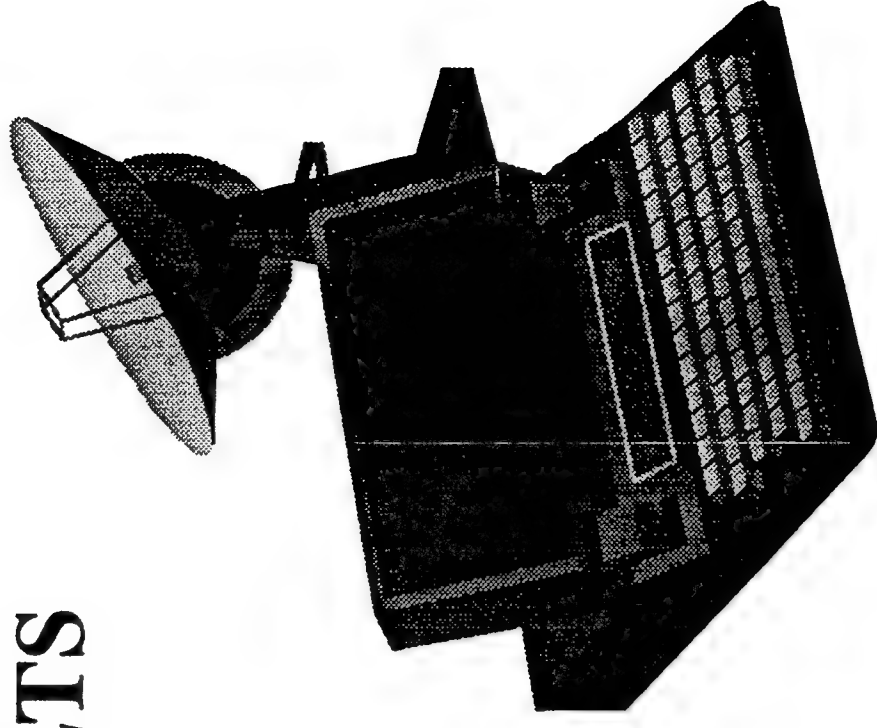
**This will also allow smaller ships without  
satellite dishes to pass information to SALTS  
through larger ships**



## **SALTS via Portable Field Units**



**Units at remote land sites  
can communicate via SALTS  
using portable field  
satellite equipment  
and computers.**



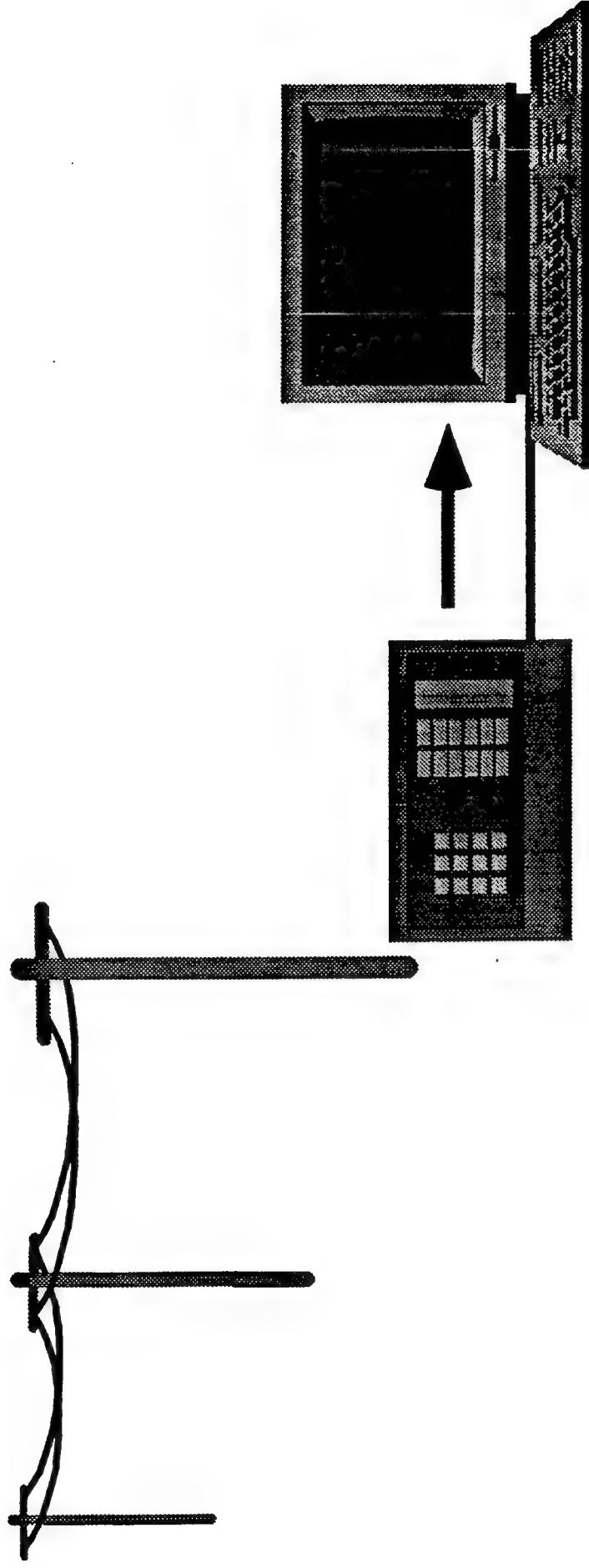


**This gives the Marines,  
SEABEES, field hospitals,  
and advanced base units  
the ability to set up  
and be ready to  
transmit within  
30 minutes!**



# ASO Data Receipt

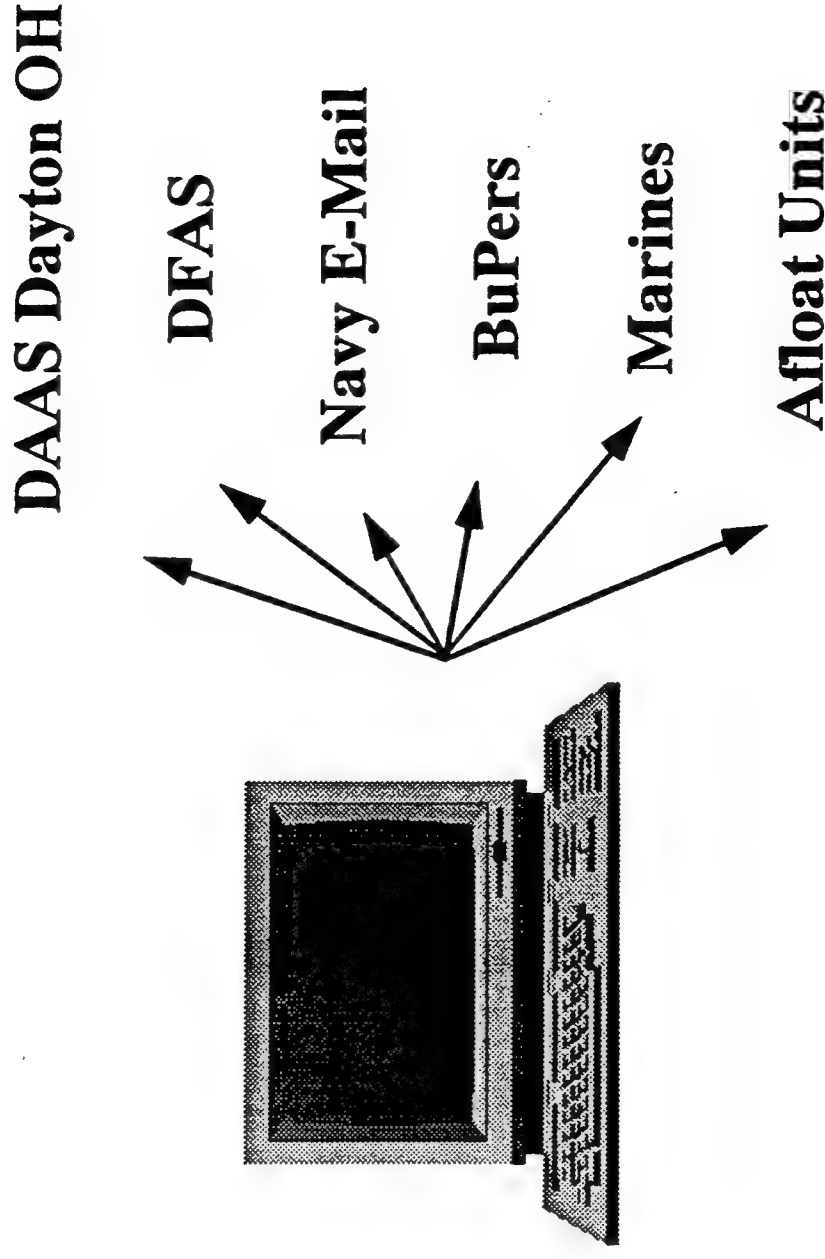
Transmissions are received  
by SALT'S Central at ASO...

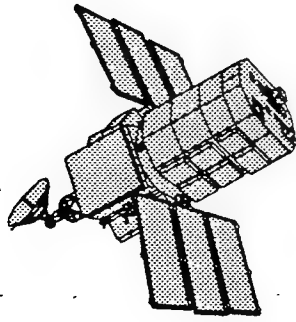


Secure Telephone  
Unit

# Distribution

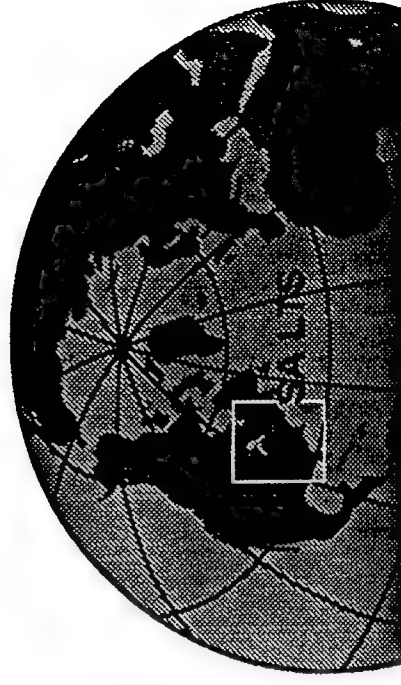
**Here they are  
automatically  
logged and  
sent to  
the intended  
recipient.**





## **SALTS can access the following information networks at ASO:**

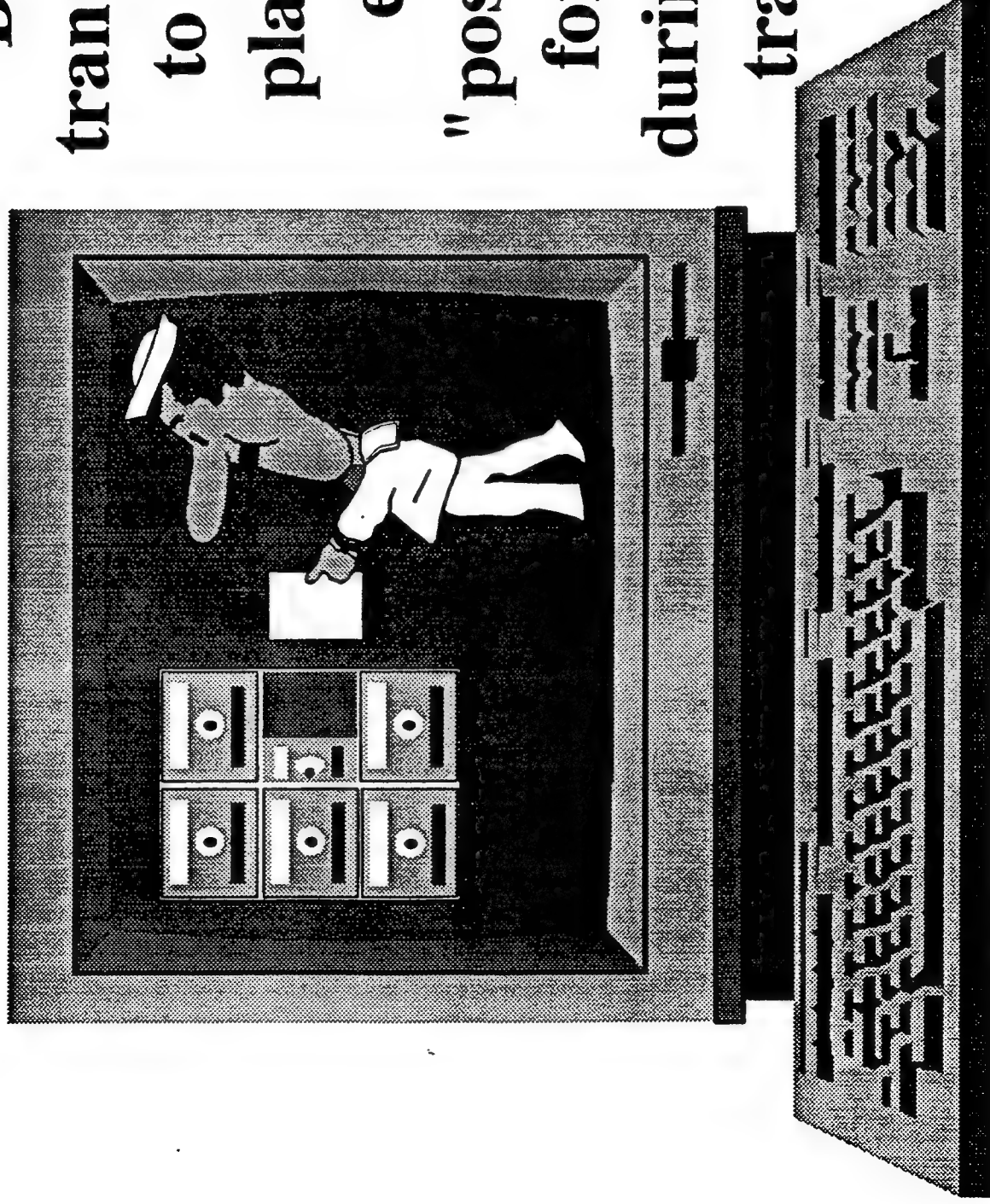
- Navy Logistics Network
- Defense Logistics Agency
- Marine Corps Data Network
- SPLICE NET
- Defense Data Network
- AFLC
- FTS 2000
- NAVNET
- INTERNET



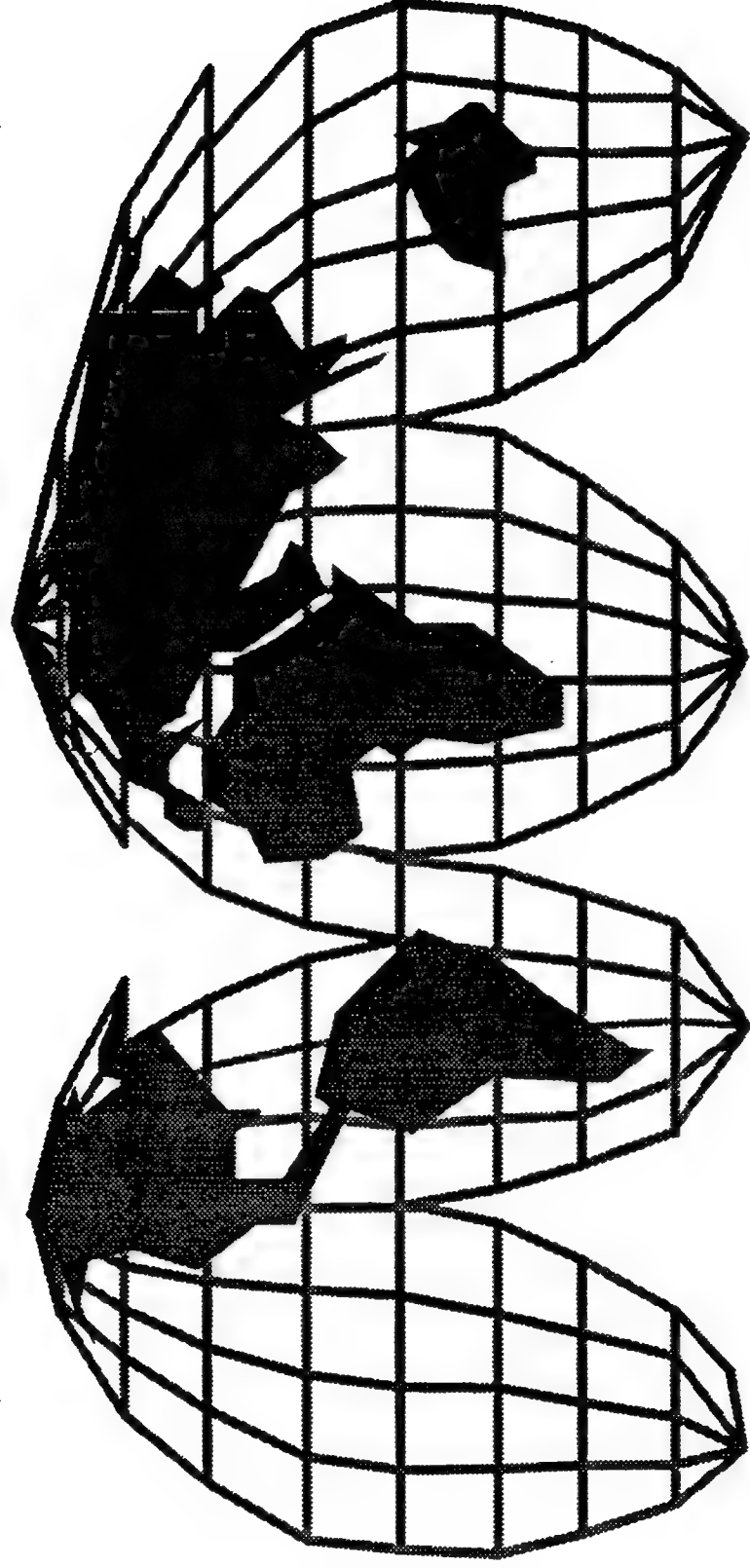


## Distribution

Data being transferred back to the user is placed in their electronic "post office box" for retrieval during their next transmission.

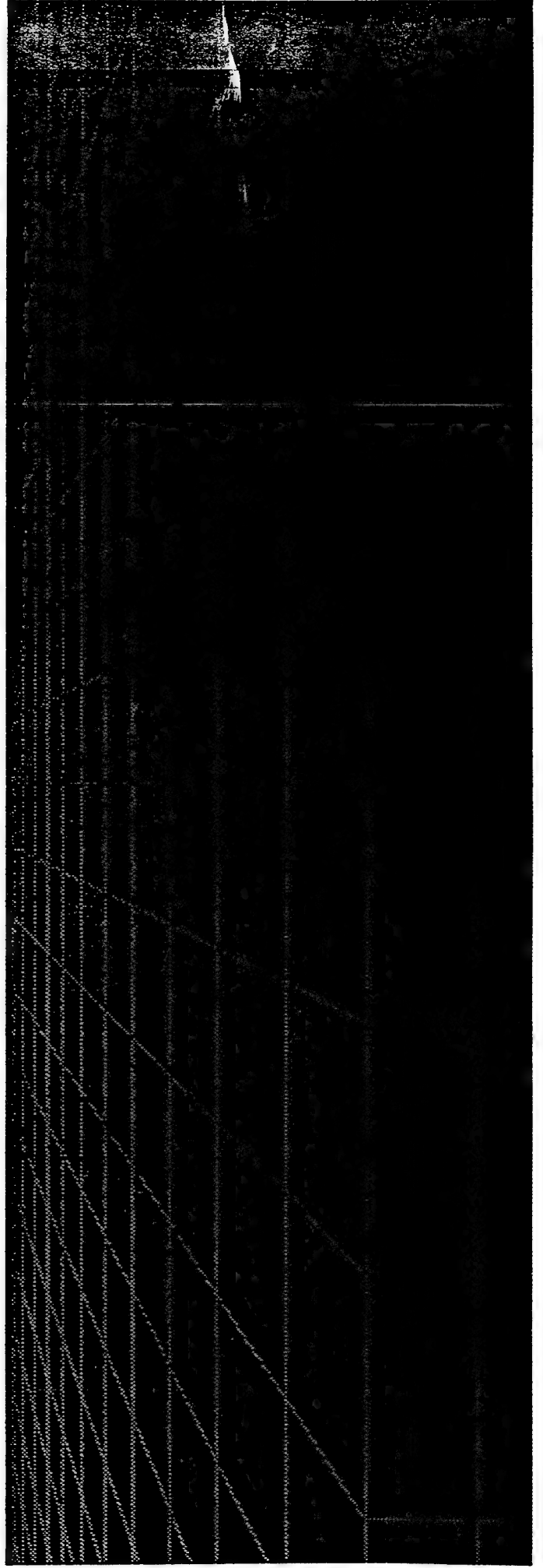


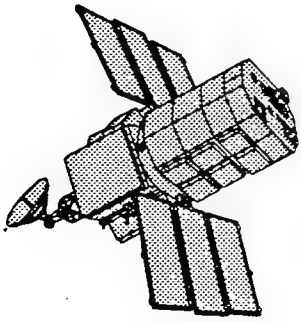
**This flexibility allows SALTS  
to be used worldwide,**



**24 hours a day, 7 days a week**

# CURRENT SERVICES OF SALTS



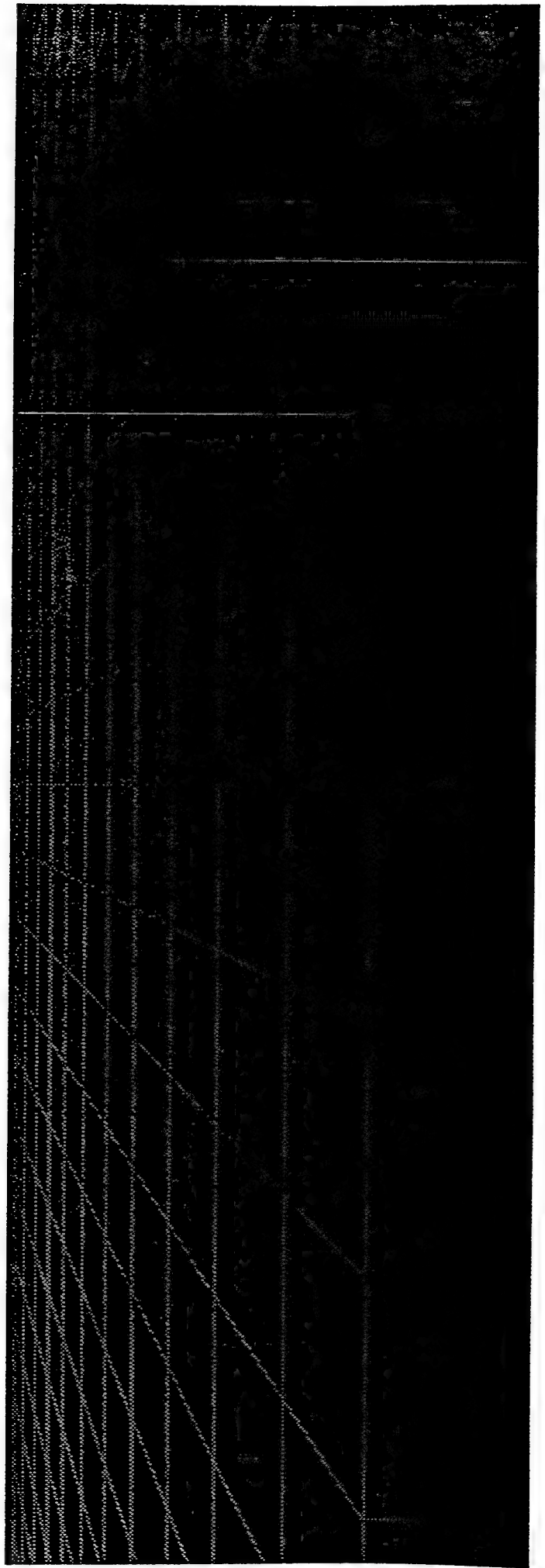


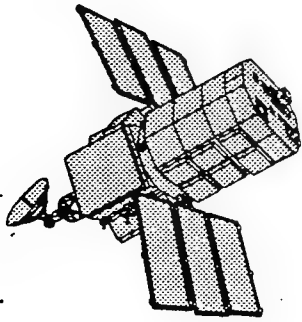
## **Current Services**

- \* **Requisition information (MILSTRIP)**
- \* **Payroll information (UMIDS)**
- \* **Messages to other SALTS users**
- \* **E-Mail to ASO/SPCC**



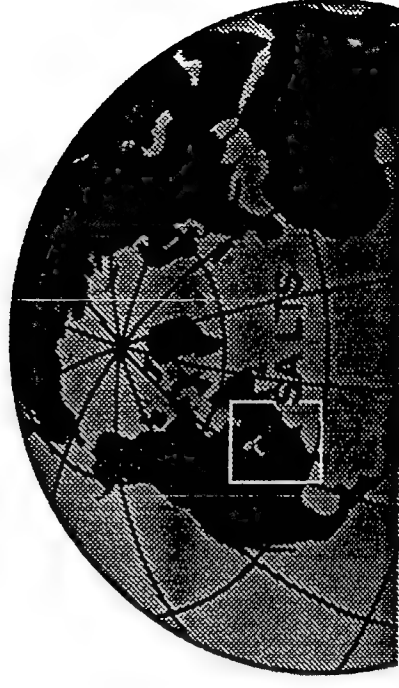
# FEATURES

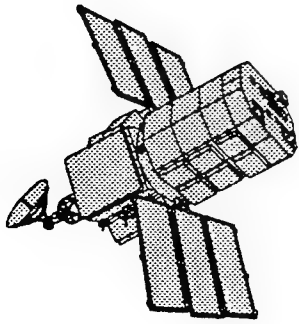




## **SALTS Features**

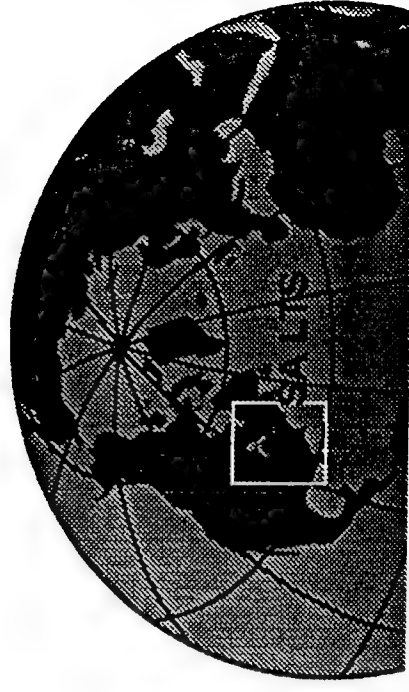
- \* **Commercial off-the-shelf components**
- \* **Works on any IBM compatible PC**
- \* **Menu driven, user friendly**

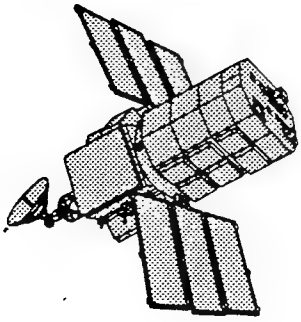




## **SALTS Features**

- \* **User can access SALTS at  
anytime... day or night.**
- \* **100% audit trail**
- \* **Fully automated**



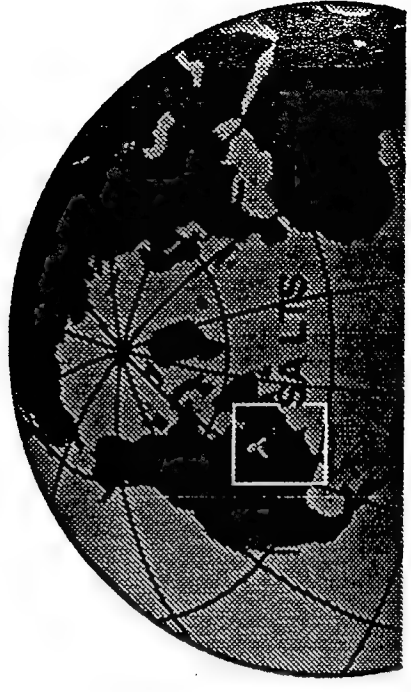


## **SALTS Features**

### **Rapid Transmission:**

**SALTS can transmit up to  
14,400 words per minute.**

**That's equivalent to  
48 typewritten pages!**



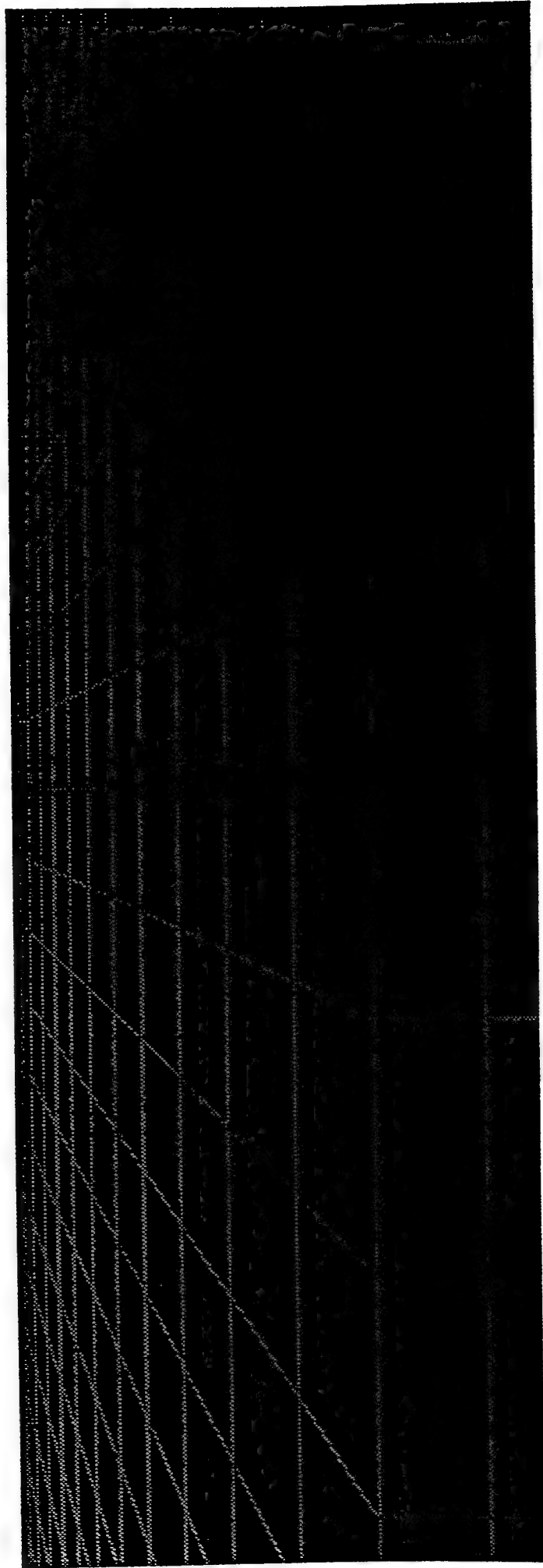


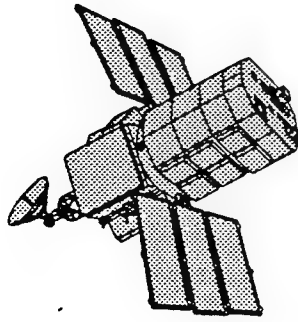
## **Automatic Program Updates**

**Any new program enhancements  
are electronically transmitted  
to user activities  
and installed automatically.**

**No visits or program mailings needed!**

# BENEFITS OF USING SALTS



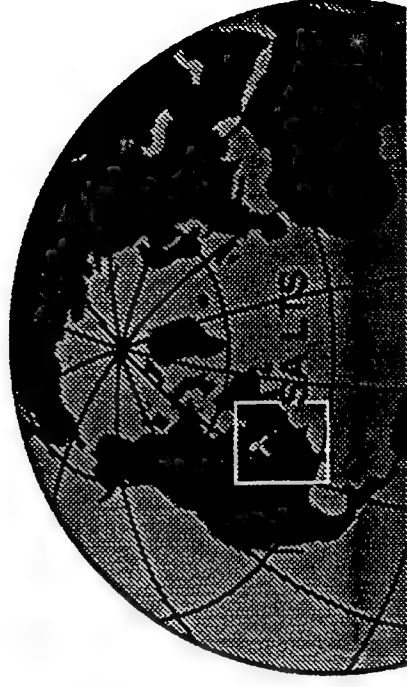


## **SALTS Benefits**

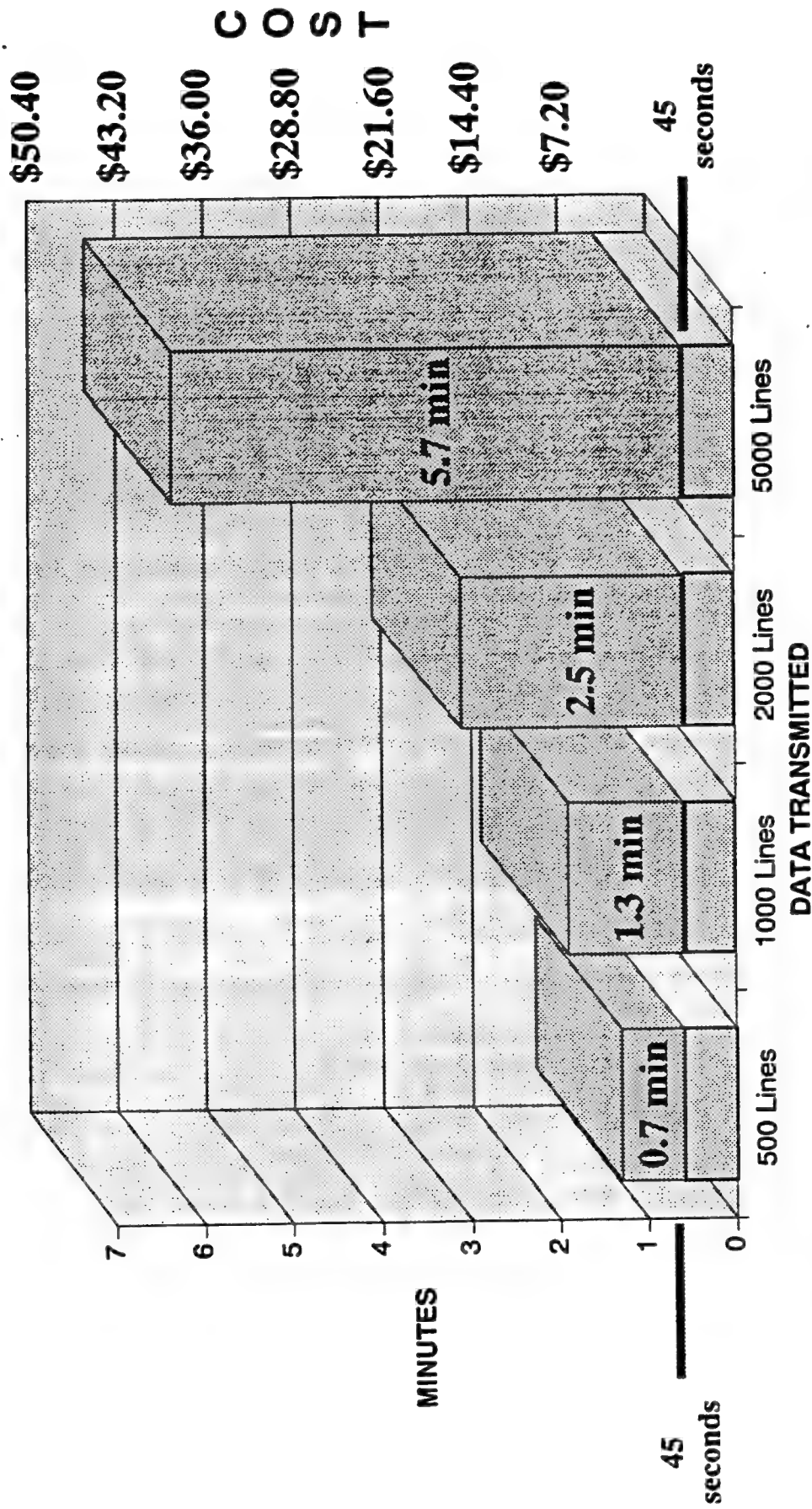
**Minimal capital investment**

**Transmits large amounts of  
information at minimal cost**

**Available now**



# SALTS Transmission Times



REQUISITIONS

= Dial up time    
  2.5 min = Data transfer time

# 7-Day Data Breakdown for USS WASP

	Date	Time On	Files	
			Downloaded	Uploaded
Wed	7/10	6	10	3
Sat	7/13	2	0	1
Sat	7/13	3	0	1
Sat	7/13	2	0	4
Sat	7/13	8	0	3
Sat	7/13	15	5	0
Mon	7/15	10	27	0
Tue	7/16	10	25	2
Wed	7/17	3	5	1

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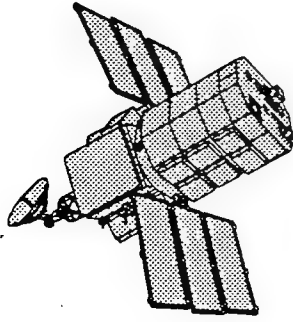
TOTAL	59	52	15
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Compressed bytes:	454,497	366,729
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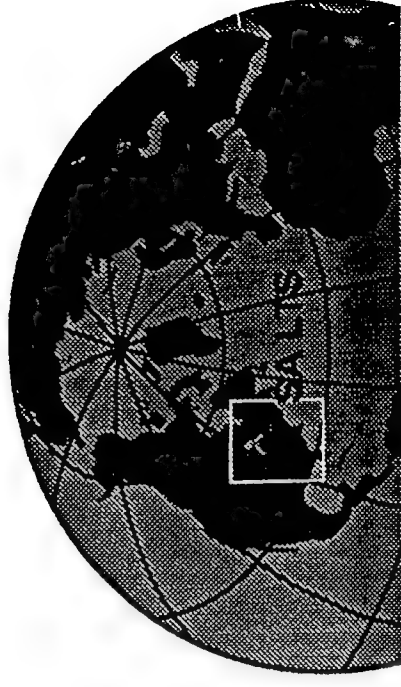
Total Cost = \$439.20	Cost Per Day = \$55.00
-----------------------	------------------------

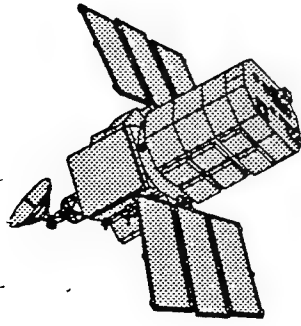
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## **SALTS Benefits**

**Provides Navy and Marine Corps units  
and remote sites  
with a secondary communications link.**





## **SALTS Benefits**

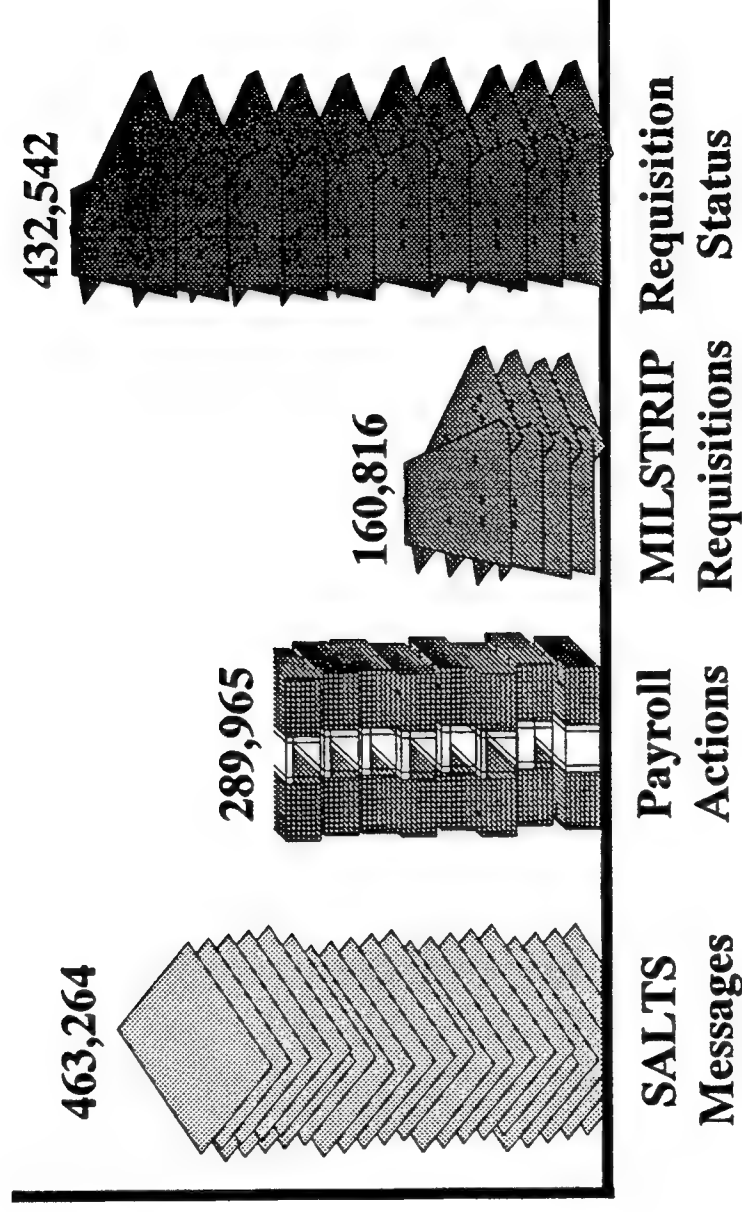
**By removing logistic and administrative data from our tactical networks, message volume will ultimately drop by as much as 50%**



# SALTS Activity

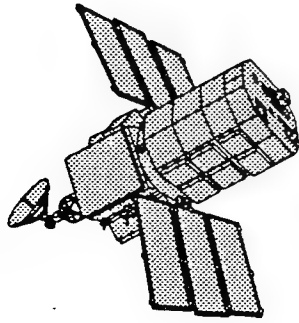
(15 Oct - 15 Nov 1991)

Number of  
Equivalent  
Message Lines  
Transferred  
via SALTS  
(102.58 Mb Total)



**1,347,000 Message Lines Removed From The  
Tactical Communication System in 30 Days!**

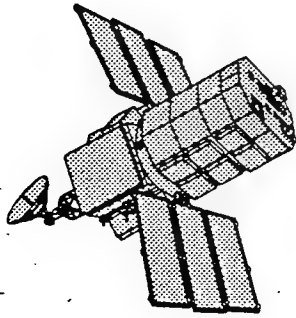




## **SALTS Benefits**

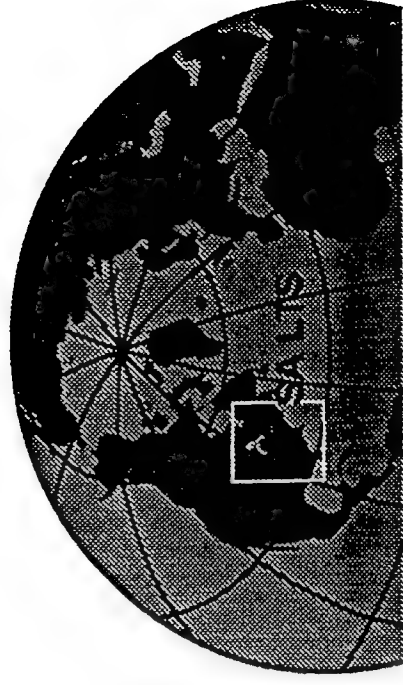
- \* **Increased readiness**
- \* **Quicker turn-around**
- \* **Reduced manual effort**



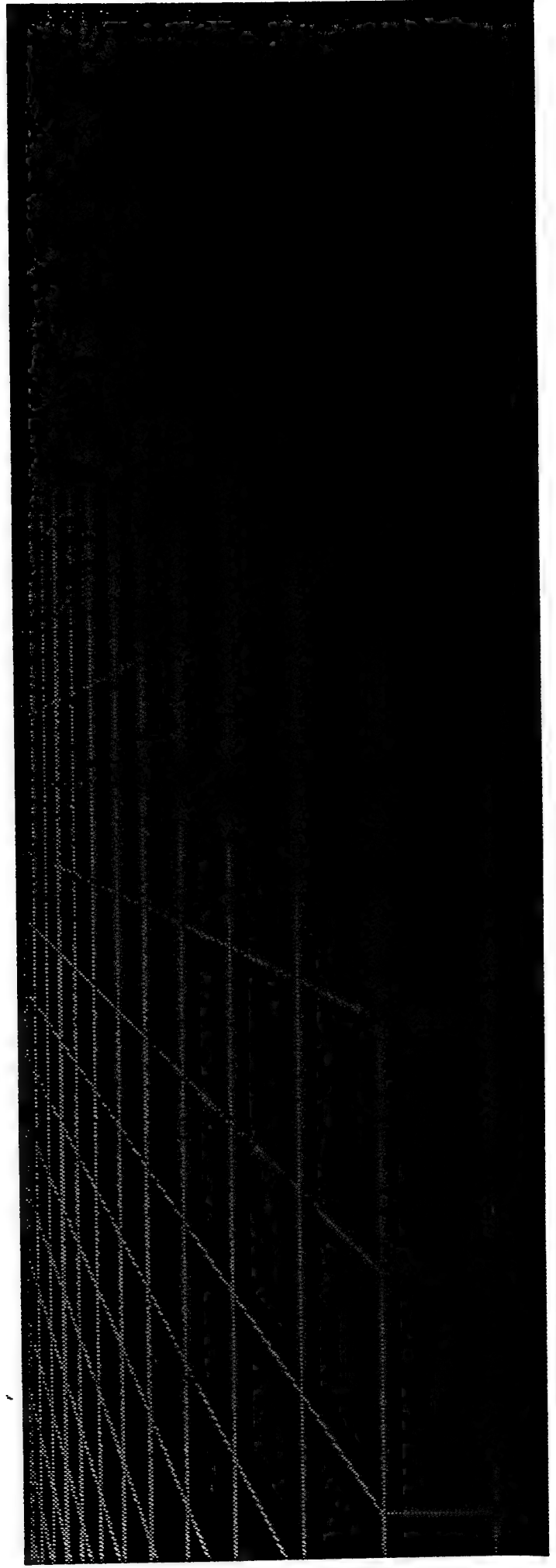


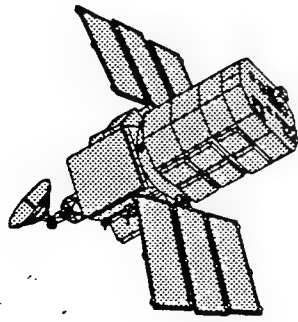
## **SALTS Benefits**

- \* **Improved morale**
- \* **Expanded pierside support**
- \* **Increased data availability**



# **COST SAVINGS BY USING SALTS**

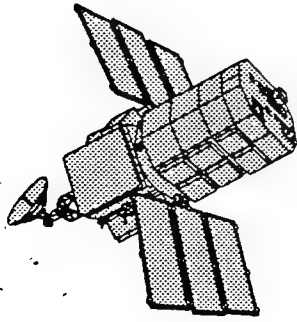




## Cost Savings

**Reduced satellite time charges  
by using digital data transfer  
instead of voice / analog communications.**

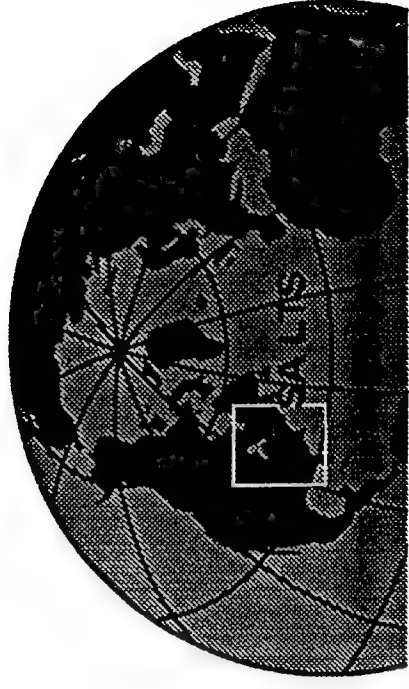


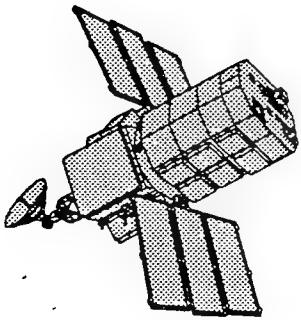


## **Cost Savings**

**Reduction in order and shipment time  
for supply requisitions.**

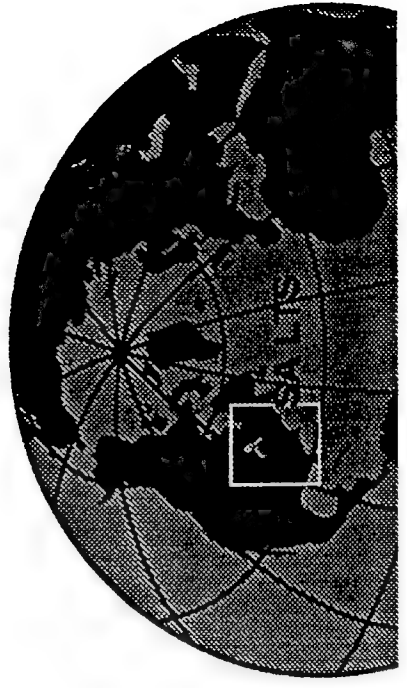
**Improved inventory utilization  
through increased visibility of assets.**



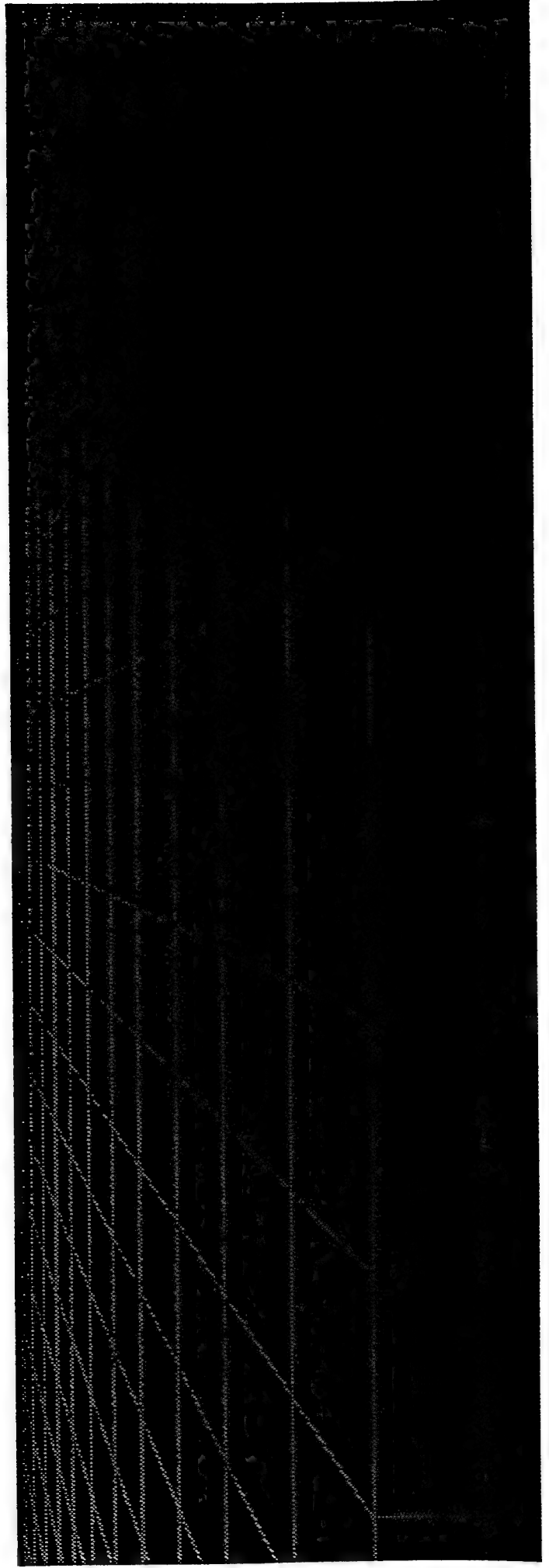


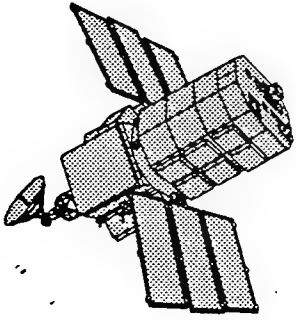
## **Cost Savings**

**Improved cash management  
through more timely  
financial reporting.**



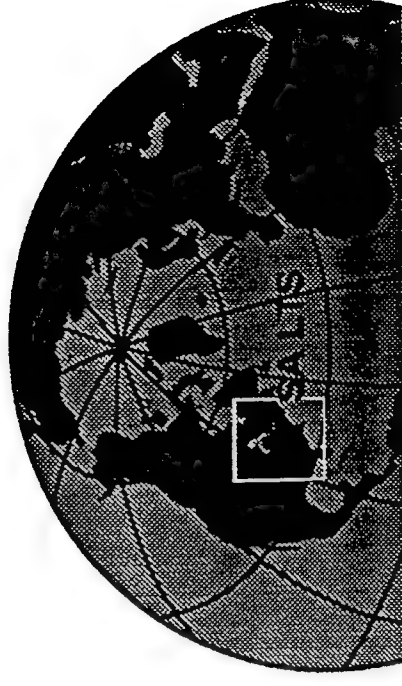
# **FUTURE DEVELOPMENTS**



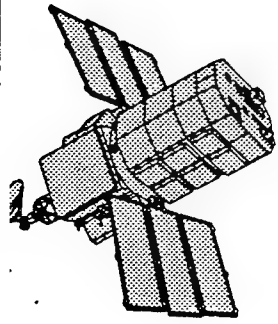


## **What's Next?**

- \* Automated logistics database inquiries (A02s, Snapshot, NALISS)**
- \* Aviation & Shipboard 3-M Data**
- \* Repairable material tracking**

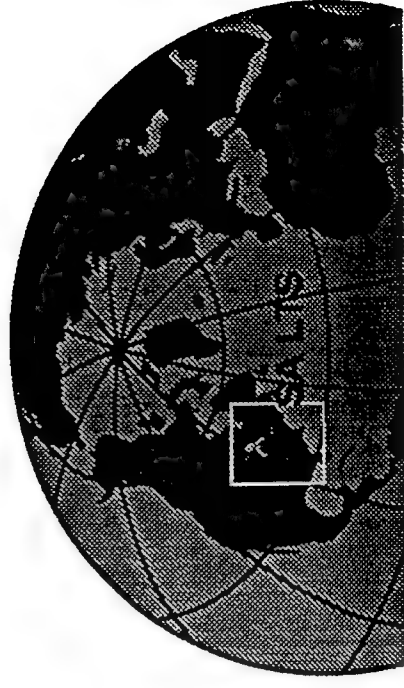




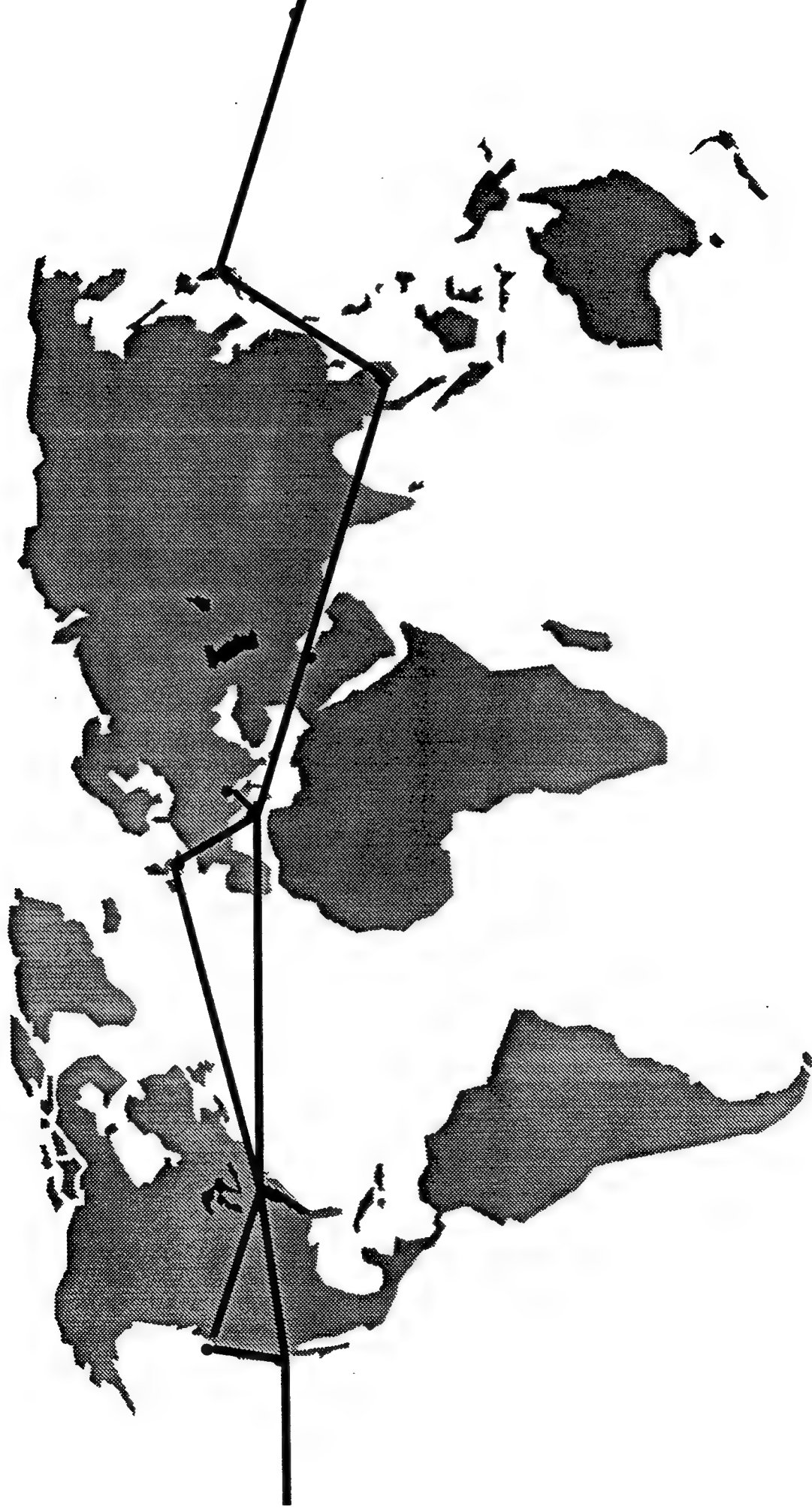


## **What's Next?**

- \* **Financial Reports**
- \* **Maintenance Work Requests**
- \* **Personnel Data**
- \* **Direct shipboard LES printouts**



# **SALTS Installation Teams have spanned the globe**



**Current Users Include:**

**14 Major Headquarters Commands**

**4 Flagships**

**9 Aircraft Carriers**

**Current Users Include:**

**14 Shore Support Commands**

**14 Repair Ships**

**8 Major Amphibious Ships**

**5 Combatants**

**Current Users Include:**

**12 Marine Corps Aviation**

**Logistics Support Units**

**3 Merchant Marine Ships**

**1 Hospital Ship**

# CURRENT SALTS USERS (as of 31 Dec 1991)

## ASHORE



COMNAVAIRLANT  
COMNAVAIRPAC  
COMNAVSURFPAC  
COMNAVSURFLANT  
SUBLANT  
SUBPAC  
CHNAVRES  
EPMAC  
Aviation Supply Office  
NAS Bermuda  
NAS Miramar, CA  
NAS Oceana, VA  
NAS Norfolk, VA  
NAS Rota  
Navy Supply Corps School  
FAADCPAC  
PSD Yokosuka, JA  
PSD Sigonella, IT  
PSD Rota  
PSD Naples, IT  
NSC Pearl Harbor  
NSC Charleston  
NSY Pearl Harbor

## AFLOAT



INMARSAT Capable

USS Blue Ridge (LCC 20)  
USS Belknap (CG 26)  
USS LaSalle (AGF 3)  
USS Forrestal (CV 59)  
USS Ranger (CV 61)  
USS Independence (CV 62)  
USS Kitty Hawk (CV 63)  
USS America (CV 66)  
USS Nimitz (CVN 68)  
USS Eisenhower (CVN 69)  
USS Carl Vinson (CVN 70)  
USS Abraham Lincoln (CVN 72)  
USS Sierra (AD 18)  
USS Yosemite (AD 19)  
USS Samuel Gompers (AD 37)  
USS Cape Cod (AD 43)  
USS Concord (AFS 5)  
USS Hunley (AS 31)  
USS L. Y. Spear (AS 36)  
USS Yellowstone (AD 41)  
USS McKee (AS 41)  
USS Detroit (AOE 3)  
USS Peleliu (LHA 5)  
USS Wasp (LHD 1)  
USS Inchon (LPH 12)  
USS Normandy (CG 60)  
USS Monterey (CG 61)  
USNS Sirius (T-AFS 08)

## AFLOAT



non-INMARSAT Capable

USS Mount Whitney (LCC 19)  
USS Prairie (AD 15)  
USS Holland (AD 32)  
USS Acadia (AD 42)  
USS Jason (AR 8)  
USS Dixon (AS 37)  
USS Emory S. Land (AS 39)  
USS Sylvania (AFS 2)  
USS Tarawa (LHA 1)  
USS Belleau Wood (LHA 3)  
USS Okinawa (LPH 3)  
USS Tripoli (LPH 10)  
USS New Orleans (LPH 11)  
USS Chosin (CG 65)  
USS Cushing (DD 985)  
USS Rueben James (FFG 57)

## MARINES



CMC Washington, D.C.  
FMFLANT  
FMFPAC  
CG 1st MAW  
CG 2nd MAW  
CG 3rd MAW  
CG 4th MAW  
CG 1st MEB



(INMARSAT Capable Units)

MALS 11 & MALS 11 (DET)  
MALS 12 & MALS 12 (DET)  
MALS 13 & MALS 13 (DET)  
MALS 14 & MALS 14 (DET)  
MALS 16 & MALS 16 (DET)  
MALS 24 & MALS 24 (DET)  
MALS 26 & MALS 26 (DET)  
MALS 29 & MALS 29 (DET)  
MALS 31 & MALS 31 (DET)  
MALS 32 & MALS 32 (DET)  
MALS 36 & MALS 36 (DET)  
MALS 39 & MALS 39 (DET)  
MAG 42  
MAG 49

## APPENDIX C

# The Personal Computer Workstation (PCW) 2000 Support Device

# The Personal Computer Workstation (PCW) 2000 Support Device

The PCW 2000 was procured to support Army QSTARS users in the early phases of the prototype development. It is no longer in use as a QSTARS component, and information provided in this appendix is for historical documentation only.



# Portable Communications Workstation PCW-2000™

*PCW-2000™ provides the opportunity to improve productivity, automate data entry functions and rapidly respond to the unique needs of customers with mobile solutions in such diverse fields as:*

**PUBLIC SAFETY**

**MILITARY**

**INSURANCE**

**ENVIRONMENTAL**

**FORESTRY**

**TRANSPORTATION**

**OIL/GAS  
EXPLORATION**

**CONSTRUCTION**

**BOATING**



**A**pproximately twenty-five million workers in the United States do their work in non-office environments; activities that are essential to almost every business enterprise. EER Systems developed the PCW-2000™ "Computer-On-The-Go" to enable such workers to improve productivity, automate manual data entry functions and rapidly respond to the unique needs of customers.

The PCW-2000 combines a powerful 386 computing platform with a VGA display, "laser quality" plain paper printing, CCITT group III Fax with wireless voice and data communications functions. The entire system is contained in a rugged, standard size briefcase built to withstand rough treatment in harsh environments. Because the system is fully integrated and runs on a universal power supply, the user is free to utilize land-line, cellular, radio and satellite communications without the burden of having to search for the right cable, the right connector or the right power supply.

The PCW-2000 utilizes an open systems approach and industry standards to easily become an extension of most existing processes. With its ability to run MS-DOS®, it enables the use of existing software for desktop platforms while providing a powerful development platform for customized field oriented applications. The versatility of the PCW-2000 offers so much to so many, it can be adapted to almost any field-related activity.

The PCW-2000 is backed by the expertise and resources of EER Systems, a major developer of sophisticated information and communications systems for America's space, military, transportation, energy and environmental programs. EER believes that the ability to handle real-world, mission-critical applications in a near real-time sense offers competitive advantages to those firms that automate their remote field functions.

*You can use it anywhere! "It will withstand rough treatment in harsh environments!"*

*From Concepts Into Practice*

1593 Spring Hill Road  
Vienna, Virginia 22182  
(800)899-8885  
(703)847-5750

**EER**  
SYSTEMS

# PCW-2000™ Specifications & Characteristics

## Functional Specifications

<b>Processor</b>		
CPU		PC/AT compatible 80386SX, 25MHz (standard), 33MHz (optional); 80486SLC, 33MHz (optional); 80387 Math Co-processor (optional)
Memory		4MB (standard), 10MB & 16MB (optional)
Software		MS-DOS 6 (standard); Windows 3.1 (standard); SCO Unix 386 (optional) IBM/Microsoft OS/2 2.1 (optional)
<b>Data Storage</b>		
Disk Drive		80MB fixed (standard); 130/170/260MB fixed (opt.); 80/120/180/210/340MB removable (opt.)
Floppy Drive/Memory Card		3 1/2", 1.44MB Floppy drive, PCMCIA slot (optional)
<b>Display Device</b>		
Type		High contrast TSTN LCD Panel B&W (standard), Color (optional)
Resolution		64-level gray scale, 640 x 480 pixels, 80 x 25 text lines
<b>Keyboard/Trackball</b>		
		101 keys including 12 function keys, PC/AT, PS/2 compatible. User removable. 18 ips, "2-button" miniature trackball
<b>Printer</b>		
		Laser-quality thermal fusion, 1 page per minute, plain paper, reusable ribbon
<b>Voice/Data Communications</b>		
Access		3-watt cellular or direct land line, hands-free dialing and speaker phone (optional)
Fax		9600 Baud, Group III, Class 1
Data Communication		14,400 Baud, full duplex, Hayes compatible, CCITT V.21, V.22, V.22 bis, V.32, V.32 bis, Bell 103, 212A
Error Correction		MNP 2-4, V.42
Data Compression		MNP 5-7, V.42 bis,
Adverse Channel Enhancements		MNP 10
<b>Standard External Interfaces</b>		
		Serial COM port, VGA external monitor port, RJ11 port for land line connection INMARSAT portable earth station packages (optional)
<b>Power Supply</b>		
Input Voltage		85 to 264 VAC US/European, etc. auto select at 47 to 440Hz
		10 to 20 VDC vehicle power via cigarette lighter connector
Power		50 watts (100 W later models)
Efficiency		AC/DC Converter 97%, DC/DC Converters 80% to 90%
Battery Pack		Internal 5 ampere-hour, sealed lead acid; 7.5 AH auxiliary battery (optional)
Charger		Two level (rapid and trickle) charging, built-in charger for external battery pack
Battery Operational Limit		Up to 3 hours depending on configuration and usage. Up to 7.5 hours with aux. battery
<b>Energy Conservation Features</b>		
		Auto sleep mode for CPU, disk drive, display, printer, phone and modem when inactive
		External switch for CPU, printer and cellular radio
<b>Global Positioning System (GPS) (optional)</b>		
		Five-channel parallel receiver with 30 second (typical) Time-to-First-Fix (TTFF) Rockwell Navcore V

## Physical/Environmental Characteristics

<b>Physical</b>				
Enclosure		Attractive style and finish, number lock, black, shoulder strap. Optional watertight, rugged case		
Height, Width, Length		6 1/5", 12 7/8", 18 1/8"		
Weight		26 to 28 lbs. depending on configuration and options. Add 3 lbs. for rugged case.		
<b>Ambient Temperature</b>		Operating	5°C to 35°C	Non-operating -15°C to 60°C
<b>Humidity</b>		Operating	20% to 80%	Non-Operating 5% to 90%
<b>Vibration</b>		Mil-Std 810E Method 514.4, Category 1, 3 and 10 (pending)		
<b>Shock</b>		Mil-Std 810E Method 516.4, Procedure I and IV (pending)		
<b>Optional Interfaces (max. = one)</b>		PCMCIA slot (memory card not included)		
		Ethernet 10 <sub>2</sub> /10 <sub>1</sub> adapter (802.3)		
		I/O Card (adds 1 parallel and 2 additional serial ports)		
		I/O Card with sound		

# PCW-2000™ Price List

## BASELINE UNIT DESCRIPTION

- 80386SX, 25 MHz
- 4 MB Random Access Memory
- 80 MB Hard Disk, Fixed
- 3.5 inch Floppy Drive, 1.44 MB Capacity
- 11 inch LCD Display, VGA Compatible, 64 Grayscale, 640 x 480 Pixels
- 12 Function Key, QWERTY Keyboard
- "Two Button" Track Ball
- 3 Watt Cellular Phone with 6' Cord (850 MHz, AMPS)
- Removable Antenna
- 14,400 Baud Data, 9600 Baud Fax Modem with MNP 10 Cellular Enhancements, Error Correction and Compression

- Laser Quality, 360 x 360 dpi, Thermal Fusion Printer
- External Power (10-20V DC and/or 85-264V AC; 47-440 Hz)
- Integral Rechargeable Battery
- MS DOS 6 Operating System Software
- MS Windows Version 3.1 Software
- ProComm Plus Send/Receive/Terminal Communications Software
- DOSFAX PRO Send/Receive Group III Fax Software
- ABS Briefcase Enclosure
- One Year Limited Warranty on Parts and Labor, Mail Back/Carry-in

### TOTAL BASELINE UNIT PRICE:

\$6,995.00\*\*

### FACTORY INSTALLED UPGRADES

#### Upgrade Option:

#### Add:

- Hard Disk Drive (choose only one)
  - Fixed Drives
    - 130 MB \$88.00
    - 170 MB \$142.00
    - 260 MB \$308.00
  - Removable Drives
    - 80 MB \$247.00
    - 120 MB \$397.00
    - 180 MB \$597.00
    - 210 MB \$697.00
    - 340 MB\* \$897.00
- Random Access Memory
  - 10 MB \$999.00
  - 16 MB \$1,899.00
- CPU
  - 80386SX/33 MHz \$140.00
  - 80486slc/33 MHz \$464.00
- Math Coprocessors
  - 80387/25 MHz \$122.00
  - 80387/33 MHz \$137.00
- Adapter (max = one)
  - PCMCIA Type I Port (Memory card not included) \$443.00
  - Parallel-to-SCSI Interface (Trantor)\* \$367.00
  - Ethernet Network Card \$368.00
  - I/O Card (adds 1 parallel & 2 serial ports) \$310.00
  - I/O Card with Sound \$408.00
- GPS (Global Positioning) with Antenna and Software \$1,200.00
- Dbl-Scan Passive Color LCD Display \$1,395.00
- Watertight, Airtight, Rugged Case \$129.00

### ACCESSORIES

#### Rems:

#### Price:

- Digital Camera (Dycam) with 4 Lenses and 2 Software Packages \$1,158.00
- Portable Page Scanner (Niscan Page) \$750.00
- External Battery Pack \$200.00
- SCO Unix 386 4.0 \$1,400.00
- Encryption Software (Watchdog) \$425.00
- Hands-free Cellular Phone Microphone \$49.00
- Half-Height Bracket for Desktop Use of Removable Drive (Kit) w/Controller \$100.00
- Outboard Housing for Removable Drive (Uses Parallel Port Computer) \$200.00
- Additional Removable Disk Drives:
  - 80 MB \$545.00
  - 120 MB \$695.00
  - 180 MB \$895.00
  - 210 MB \$995.00
  - 340 MB\* \$1,195.00
- GPS Map Kit (DeLorme)\* \$699.00
- CD ROM Drives\*
  - SYDOS Parallel CD 545ms \$417.00
- MNP 10 Base Station Modems (14,400 Data/9,600 Fax)
  - Deskport Async Desktop Modem \$415.00
  - QX 4232 bis Sync/Async Desktop Modem w/ Password Security \$582.00
  - QX 4232 bis+ Sync/Async Desktop Modem w/2 Levels Security, Leased and Dial-up Lines \$748.00

- Call for Availability
- \*\* Discounts are Available.



1593 Spring Hill Road  
Vienna, Virginia 22182  
Phone: 703-847-5750 & 1-800-899-8885  
Fax: 703-847-5756

Specifications and prices subject to change without notice.

Effective 10/8/93

**White Paper**

**The PCW-2000™**

**Portable Communications Workstation**

**Overview**

## **I. EER SYSTEMS CORPORATION**

EER Systems Corporation (EER) was incorporated in Virginia in September of 1979. A graduate of the Small Business Administration's "8a" program, EER has participated successfully in many high-technology U.S. government projects. EER's 14 year history has been characterized by steady growth to over \$100-million, sound financial management, and a track record of success in varied and complex projects.

With ten offices nationwide, and 15 on-site locations, EER has the capability of responding to customers.

Major government customers include NASA; the Office of the Secretary of Defense; the U.S. Army, Navy and Air Force; the Departments of Commerce, Energy, and Transportation; the National Weather Service; the FAA; and others. Commercial customers include Lockheed; Martin Marietta; TRW; McDonnell Douglas; Logicon; General Electric; Fairchild; and ARINC.

EER has expertise in a number of technical disciplines, including hardware fabrication and assembly, information systems development, program management, system studies and analysis, software development, system development and integration, test and evaluation, quality assurance and control, logistics support, training and simulation, and low orbit spacecraft assembly and launch.

The **PCW-2000™** product is an outgrowth of work done by EER in response to an Air Force requirement for a wireless flightline maintenance workstation. It is manufactured by EER in Seabrook and Columbia, Maryland.

## **II. THE PCW-2000 MARKETPLACE**

Approximately 25 million workers in the United States do their work in non-office environments. Many of these workers spend some or most of their work time outdoors. These activities are essential to almost every enterprise. New technologies are emerging which attempt to address the special portability, survivability and communications needs of these workers.

Until the late 1980s, it was impossible to contemplate a wireless, communicating, faxing "portable office." Today, however, key technologies have matured enough to be widely available and understood by a critical mass of users.

Key to the development of the **PCW-2000** is the evolution of the cellular phone. Replacing the expensive, unreliable, and rarely used radio car phone, the cellular phone is light, small, inexpensive, and available. It has exploded into the market and has become commonplace both in and out of cars. It is now being looked at as a means of not only talking, but of transferring data, images, and faxes, just as land line phones have for years.

At the same time, microcomputers have come to be widely used, with tens of millions in use today. Designing a solution to help an organization gather, analyze, and transfer information can today be built upon standards, such as Microsoft's MS-DOS® with confidence that virtually any potential end-user will immediately know how to use it.

Along with the evolution of standards for the personal computer came desktop printing standards, such as "Epson" and "IBM ProPrinter" available on almost every printer produced today. As a result, software on today's personal computers all output to one or more of these standards.

Output of graphics, including publishing quality typefaces, have been standardized with the ten-year development of laser printing. Laser printer standards even allow graphics reproduction on non-laser printers (such as the Citizen PN-48 used in the PCW-2000).

As a fortunate coincidence, the invention of the facsimile machine has created an overnight augmentation to commonplace office capabilities. There have now been enough facsimile machines in use for a long enough time to assure industry standards and familiarity among almost all office workers.

An example of the emerging marriage of two of these technologies can be found in advanced error correction, line monitoring and adjusting of data transmission speed, level, and packet size, developed to cope effectively with varying conditions found in cellular phone connections. Without such advancements, the first cellular data sessions, if they could be established at all, proved slow and unreliable, with unpredictable data and frequent disconnections.

Another EER advancement is the design of a single power supply, robust enough to meet the widely varying demands of multiple components which by nature unpredictably require peak current, often at the same time as other systems. Development of this technology allows the integration of the above technologies into a unit, without the overhead involved in transporting and maintaining six or more separate battery/power supply/charger combinations.

By employing the base technologies, which can now be described as mature and commonly understood, and by using and developing the necessary interfacing and electrical and mechanical support, an advanced, integrated product has been developed which offers these technologies in a rugged, portable package. It is the PCW-2000.

Workers and organizations who can significantly benefit from the PCW-2000 include:

- **Rescue/Disaster/Fire Fighting.** Remote look-up of toxic materials and manpower/resources needed to respond; create log of events; transmit photos of the situation; GPS use to prove location of hazards and legal boundaries; coordination with other responding units.
- **Logistics.** Field support to maintenance personnel; order and track shipments; coordinate shipments through multiple stages.
- **Flight Planning/Loading; Airfield Surveys.** Loadmaster can adjust loads in outbound aircraft; on-site diagrams of airfields; utilize GPS to pinpoint sites.
- **Enforcement/Surveillance.** Use in surveillance to record (by keyboard and with camera) suspects, hideouts, illegal transactions, etc.; distribute to analysts and other surveillance personnel. Also, can record the criminal record and any other legal data while on-site.

- **Inspections/Safety/Environment/Compliance.** Remote utilization of databases, enforcement information, laws, legal records, etc.; send data/faxes to legal authorities for authorizations and legal records; record infringements and print citations.
- **Investigations.** Bring records with you; download new information needed; look up files; send back legal paperwork; receive authorizations; transmit photos back to headquarters.
- **Covert/Intelligence/Special Operations.** The office component of tactical operations, all in a single rugged briefcase
- **Drug Interdiction.**
- **Executives** needing to say in touch.

### III. THE PCW-2000

#### A. Functions

##### 1. Computing

The **PCW-2000** is offered in a base unit to which options can be added. The base unit has an Intel 80386SX processor running at 25MHz, 4 megabytes (MB) of memory, an 80 MB fixed hard disk drive, 3.5" floppy disk drive, an 11" black and white LCD screen, removable keyboard with 12 function keys, and a "two-button" trackball. The system ships with MS-DOS and Microsoft Windows.

##### Computer Options

- a. Upgrade to an 80386SX/33MHz, or 80486slc/25MHz or 80486slc/33MHz, with or without an 80387 math coprocessor.
- b. Upgrade memory to 10MB or 16MB.
- c. Upgrade to a 136MB, 180MB, or 260MB fixed disk; or an 80MB, 120MB, 180MB, 210MB, or 340MB removable disk.
- d. Add an I/O card (adds 1 parallel and 2 serial ports), PCMCIA, or certain combinations.
- e. Add SCO UNIX and/or OS/2.

##### 2. Data Communications

- a. **Choice of Media** - Land line, cellular, satellite (optional) standards A and C (B and M future).

- b. Modem** — Hayes "AT" set compatible fax/data modem; data speed of up to 14,400 bps with the following standards: CCITT V.21, V.22, V.22bis, V.32, V.32bis, Bell 212A, Bell 103 protocols, V.42, (w/LAPM, MNP2 and MNP4) error correction, V.42bis and MNP5 compression, and MNP10 adverse channel enhancements. MNP10 controls the gain and speed of handshake and transmission during data transmission to get the most out of difficult cellular connections. It controls the gain of the connection even during cellular fax sessions.
- c. Software** - Terminal and host emulation, multiple protocol data transfer with standard error correction and compression.

### **3. Voice Communications**

- a.** Switchable cellular or land line. Standard RJ-11 land line jack usable for satellite and future communications methods.
- b.** Deskphone/RJ-11 device can be used in parallel with fax machines, telemetry devices, heart monitors, etc., over cellular phone, or the land line jack.
- c.** The cellular phone is password protected.
- d.** Integral and removable antenna, 3dB to 5dB gain.
- e.** Cellular phone is 3-watts — the maximum legal power.

### **4. Fax**

- a.** Standard CCITT Group III, Class 1, fax at 9600 baud.
- b.** Receive and send in background mode. Immediate or timed sending of faxes. Receives to disk - no need to print until desired.
- c.** Send text, graphics, photos, etc., from disk files.
- d.** All hardware and software included.

### **5. Printing**

- a.** Laser-quality 300 x 300 printing.
- b.** Reversible ribbons, need only be replaced when desired.
- c.** Plain "copier-type" paper used. No clay, thermal, etc., paper needed. Continuous-feed paper can be used.
- d.** Epson and IBM emulation for maximum standard compatibility.



## **B. Options**

### **1. Geo-positioning**

The **PCW-2000** uses the Rockwell Navcore V GPS, optionally installed and powered by the main unit. It provides continuous, once per second, tracking of satellites.

A rapid time-to-first-fix (TTFF) is achieved using efficient search algorithms using the five parallel channels of the receiver. A typical TTFF is 30 to 45 seconds.

Navigation solutions can be maintained by several different modes. The GPS uses one of the five channels to track all remaining satellites in view. This is accomplished by designating one channel as a utility channel. Therefore, if one channel experiences an outage, the utility channel supplies an alternate satellite.

A four satellite navigation solution (3-D: latitude, longitude, and altitude) is generated automatically. Accuracy is limited to 100m by regulation.

### **2. INMARSAT Satellite Communications**

Either Standard A or Standard C INMARSAT ground stations are optionally available for use with the **PCW-2000**.

EER provides the Magnavox "Magnaphone" model 2020 for worldwide full duplex phone, data and fax communications in real-time over INMARSAT's Standard A. The Magnaphone is easy to transport to a site, plug in, orient to the nearest satellite, and operate. It connects to the **PCW-2000** via its "land line" jack. Using the satellite is just as easy as using cellular or land line connections.

The MTI "Datalite" Standard C terminal offers lighter weight, less initial cost and less per-minute cost. Standard C provides an inexpensive way to send data from the **PCW-2000's** serial port to a receiving computer. The A/C-powered "Datalite" is easy to orient, and sends data to a receiving ground station where it is scheduled to be forwarded to a receiving site within minutes. This solution is for data only; voice or images may not be transmitted.

### **3. Digital Imaging - Still Camera**

EER offers the Dycam Model 3 digital camera as an option with the **PCW-2000**. Up to 32 sharp 400 x 300 black and white images can be taken and stored on the battery-powered Model 3 before downloading to the **PCW-2000**. Two software packages provided allow enhancement of images and subsequent storage on disk in eight different formats. Pictures can then be sent as data files or faxed to remote locations, before or after being annotated or merged with text. Advanced features include remote picture-taking and continuous scene viewing on the **PCW-2000** with capture option.

**C. Physical Characteristics**

The PCW is uniquely built to withstand rugged treatment. It has two levels of shock mounting, using parts all specified for rough treatment, allowing rough transportation to and from where the work will be performed.

The size and shape of the **PCW-2000** allows it to be stowed under airline seats or in overhead compartments, as well as in the baggage hold. The locking briefcase can only be opened when the **PCW-2000** is in the correct position, preventing accidental upside down opening. A very rugged airtight/watertight case is optional.

**D. Electrical**

1. Internal sealed lead-acid battery operates all internal devices and eliminates the need for five, six, or more separate batteries and chargers.
2. AC charges/operates from an 85-264 VAC; 40-440 HZ. High capacity design prevents overload whenever combined peak demands occur.
3. DC charges from 10VDC to 20VDC (car cigarette lighter adapter provided).
4. Intelligent power conservation software provided for use in MS-DOS Operations. "Sleep mode" extends battery life to over 24 hours.
5. External battery optional.

## APPENDIX D

# The International Maritime Satellite System (INMARSAT)

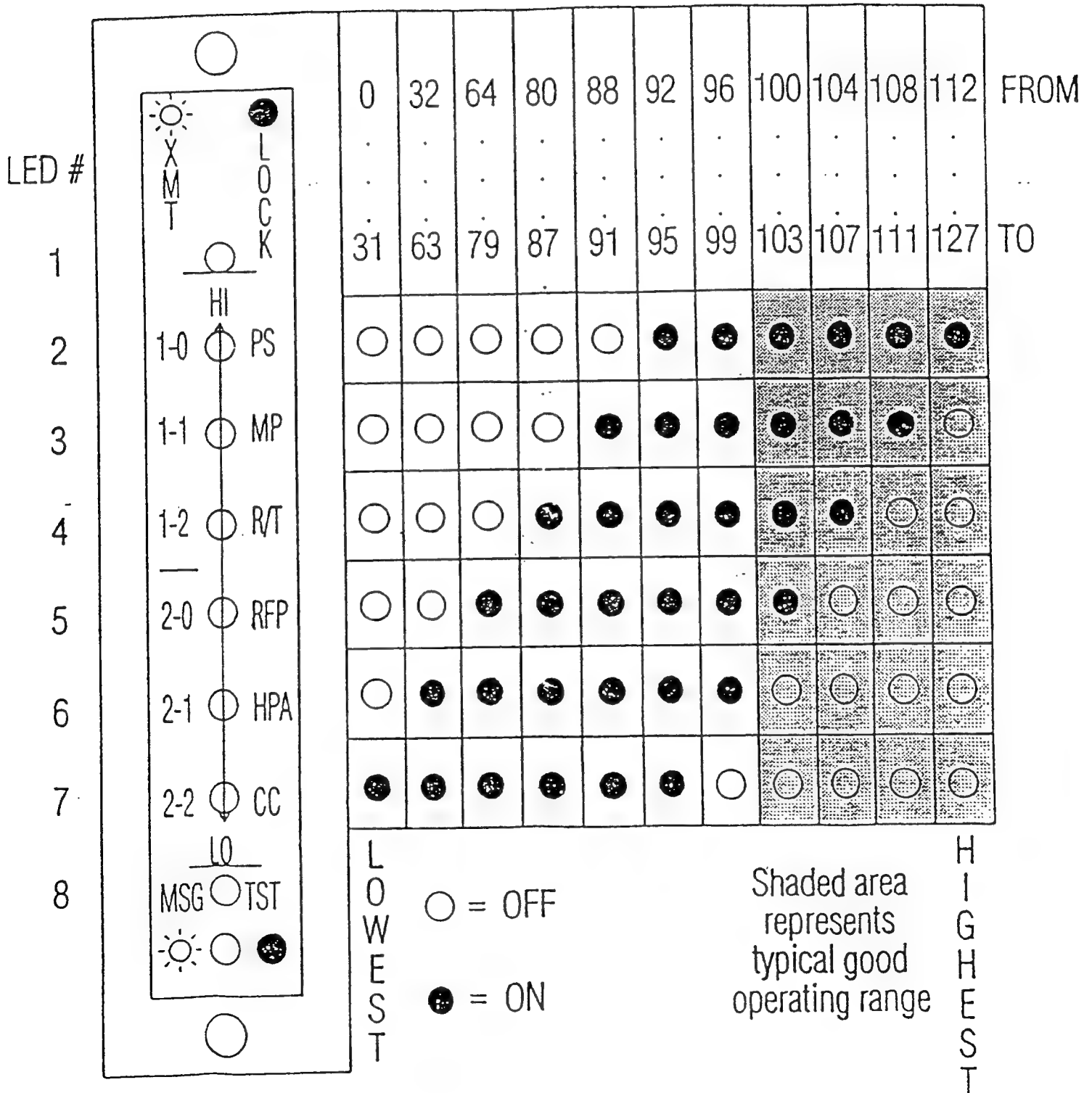
# The International Maritime Satellite System (INMARSAT)

Contained in the appendix is descriptive information about the INMARSAT commercial satellite communications system used in the Quad-Service Satellite Transmitting and Receiving System prototype.

Basic Operating Instructions for the MX2020

1. Unpack terminal and place on top of the transit case or deploy by using the legs on the bottom.
2. Swing antenna around to the front. Unfold the antenna and rotate center locking plate to secure antenna sections. Tighten all six green colored bolts. (Do not adjust the four inner bolts which are used to remove the complete assembly.)
3. Open telephone console by depressing small lever on the left side of the terminal's back. Connect telephone/handset, and plug in power. Turn unit on using power switch on the terminal's right side.
4. Consult maps (in users manual) for proper elevation and azimuth bearings. Be sure to use the correct map for the satellite in your area. The map will provide information on approximate bearing and inclination.
5. Point unit in direction indicated by map using compass. You should use a location with an unobstructed view to the satellite. Shooting through windows may degrade performance.
6. Raise antenna to approximate elevation needed. There is an inclinometer on the side of the terminal near the antenna.
7. Wait about 10 minutes for the unit to "warm up". (or 3 minutes if equipped with fast warm up oscillator.)
8. Adjust the bearing and antenna inclination for maximum signal strength. Watch red light indicators on top of the terminal. Peak the signal (see page 3 for details).
9. The Lock indicator on the top of the terminal will glow red when the unit is ready for operation.
10. Enter the proper satellite into the software by pressing \*3 on the telephone. Follow the voice prompts.
11. Enter the desired earth station (for the downlink) by entering the two digit station code. This process is initiated by pressing \*6 on the telephone. Consult manual (page 92-93) for a list of earth stations and codes.

# SIGNAL STRENGTH



# MX 2020P **MAGNA** *Phone*

## TEST REPORT SUMMARY

The tests conducted within this summary were  
performed in accordance with  
MIL-STD-810D



**Magnavox**

Nav-Com, Inc.



February 10, 1992

730000/A

- 2) **SOLAR RADIATION TEST** - The **MAGNAPhone** is typically used outdoors and many of our customers intend on keeping the unit outside over extended periods. This test was performed to verify that the plastic parts of the Control Console, and the fabric of the umbrella antenna, could withstand prolonged periods in the sun. We conducted solar radiation tests per MIL-STD-810D (infrared and ultraviolet spectrums) and no detrimental affects were observed. In fact, even though the military standard does not call for the unit to be operating during the 5-day test, we felt that this was not a true indication of "real life." We put the transmitter of the Transceiver in transmit mode for the full 5-day period, inducing full thermal stress (from both the power dissipation of the unit while transmitting, the solar radiation, and the room ambient of +49 deg. C) on the electronic hardware. The unit was fully operational after the test was completed.

The test results demonstrated that the **MAGNAPhone** can withstand extended periods in the sun, even under long periods of transmission.

- 3) **SHOCK (TRANSPORTATION) TEST** - The **MAGNAPhone** was tested in its hard transit case for situations where accidental dropping of the unit may occur. This may result while removing the equipment from a transportation vehicle, airline handling, or plain misuse. The unit was dropped from a height of 30 inches on all 6 faces, all 8 corners, and all 12 edges, onto a two inch surface backed by concrete. Upon completion, the unit was intact and fully operational.

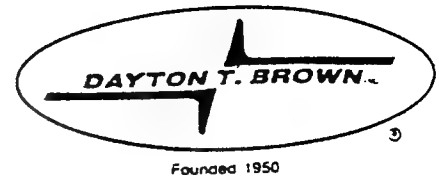
The **MAGNAPhone**, properly packed in its hard transit case, will survive the most rigorous transportation conditions. The hard transit case was qualified per this severe MIL-STD-810D test, and is thus referred to as the MIL-STD case.

- 4) **SHOCK (BENCH HANDLING) TEST** - Many of our agents will be performing their own service on the unit and for this reason we felt it important to put the unit through the bench handling tests which simulate the type of handling it may undergo while being serviced by a technician. The test consisted of raising one side of the unit 4 inches off of a simulated bench surface (one edge of the unit remaining on the bench surface) and dropping the unit. This was repeated on all 4 sides with the unit passing after each drop.

The unit is built rugged to withstand servicing by a qualified technician, even if rough handling or accidental mishandling occurs.



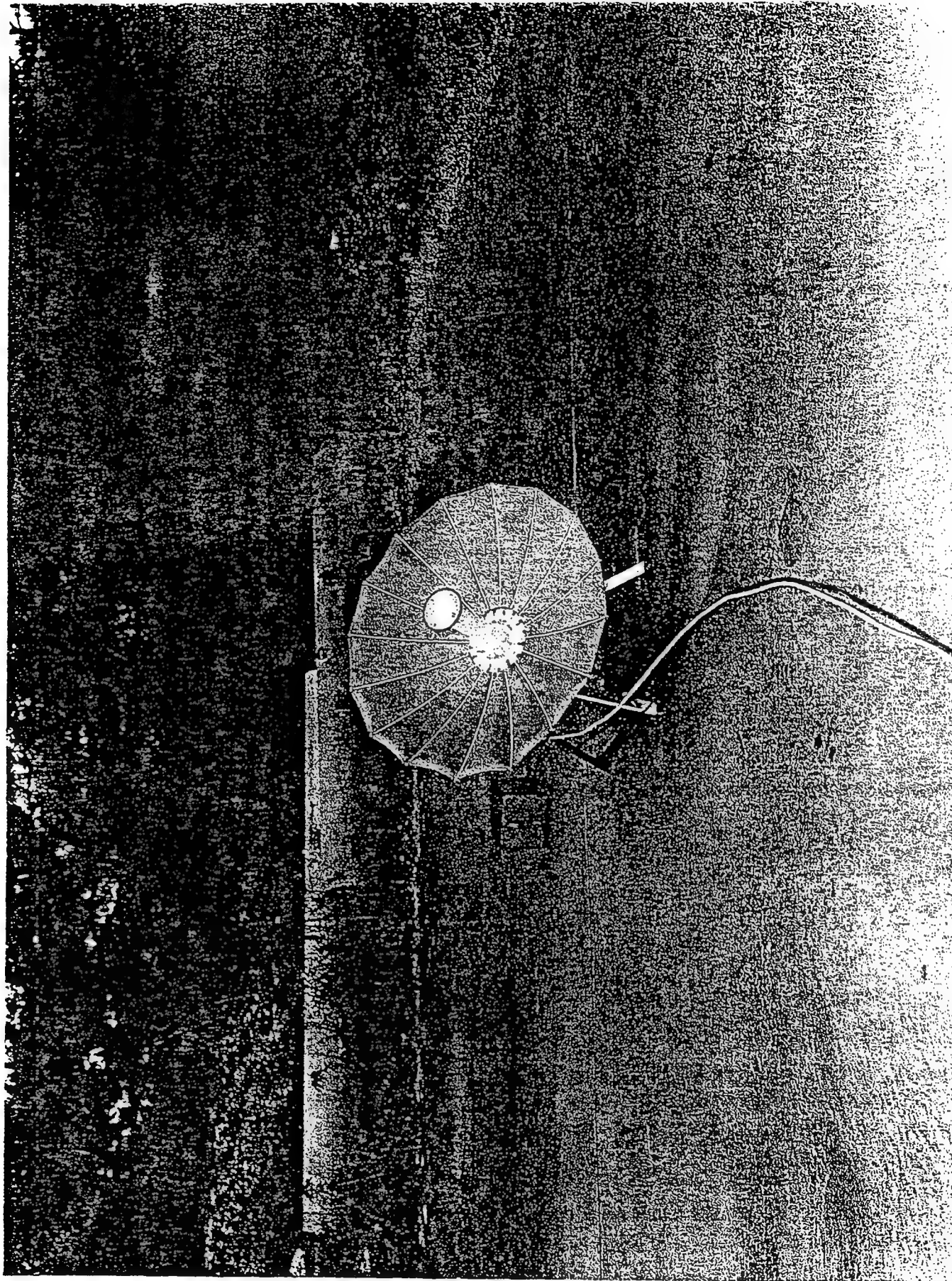
This document has described the robust capabilities of the *MAGNAPhone*, that is, the unit can be used anywhere, anytime, even under the severest of conditions. We realized from the onset that our customer base is a select group that requires rugged, highly reliable communications, when other communication systems fail, or just won't suffice. We have been providing land transportable satellite communication terminals since 1983. During this nearly-a-decade of experience, we have gained an understanding of the rigorous requirements of the land satellite communication user community. For this reason, we designed quality into the *MAGNAPhone* from its conception. The robustness of the terminal has been clearly demonstrated by successfully undergoing the rigors of MIL-STD-810D testing.



WE CERTIFY THAT THE FOLLOWING TESTS WERE CONDUCTED AT DAYTON T. BROWN, INC. ON  
THE MX 2020P MAGNAPHONE:

TESTING IN ACCORDANCE WITH  
MIL-STD-810D

TEST	METHOD	PROCEDURE	COMMENTS
RAIN (W/WIND)	506.2	I	30 MIN./SIDE 40 MPH WIND 4 IN./HR RAIN
SAND & DUST	510.2	I	PER SPEC.
SAND & DUST	510.2	II	90 MIN./SIDE VEL.-3450 F/M CON-.033 G/FT <sup>3</sup>
VIBRATION	514.3	I BASIC TRANSPORTATION	60 MIN./AXIS PER FIGURES 514.3-1
VIBRATION	514.3	II LOOSE CARGO (BOUNCE)	30 MIN./SIDE
SHOCK	516.3	IV TRANSIT DROP	30-INCH DROPS
SHOCK	516.3	VI BENCH HANDLING	4-INCH AND 45° DROPS



TESTED FOR & REPR'D. BY: NAV-COM INC.

ITEM: MAGNAPHONE

VIEW SHOWS THE TYPICAL WIND AND RAIN TEST SETUP

JOB NO.: 407658-00-000

FILE NO.: 91-1928

DATE: 1 NOVEMBER 1991

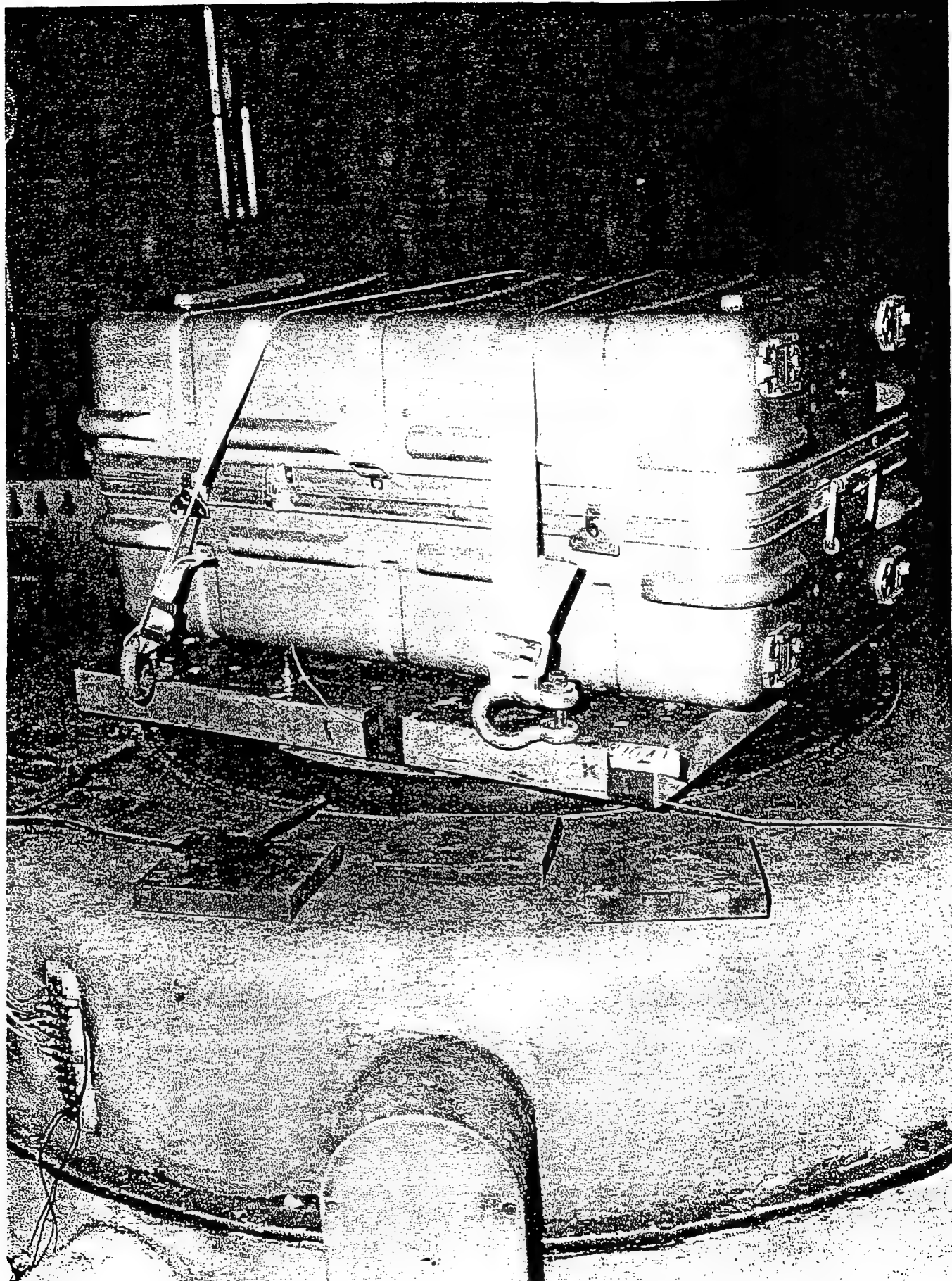
DTB04R91-1135

ENCLOSURE: 9

PHOTO: 1



Founded 1950

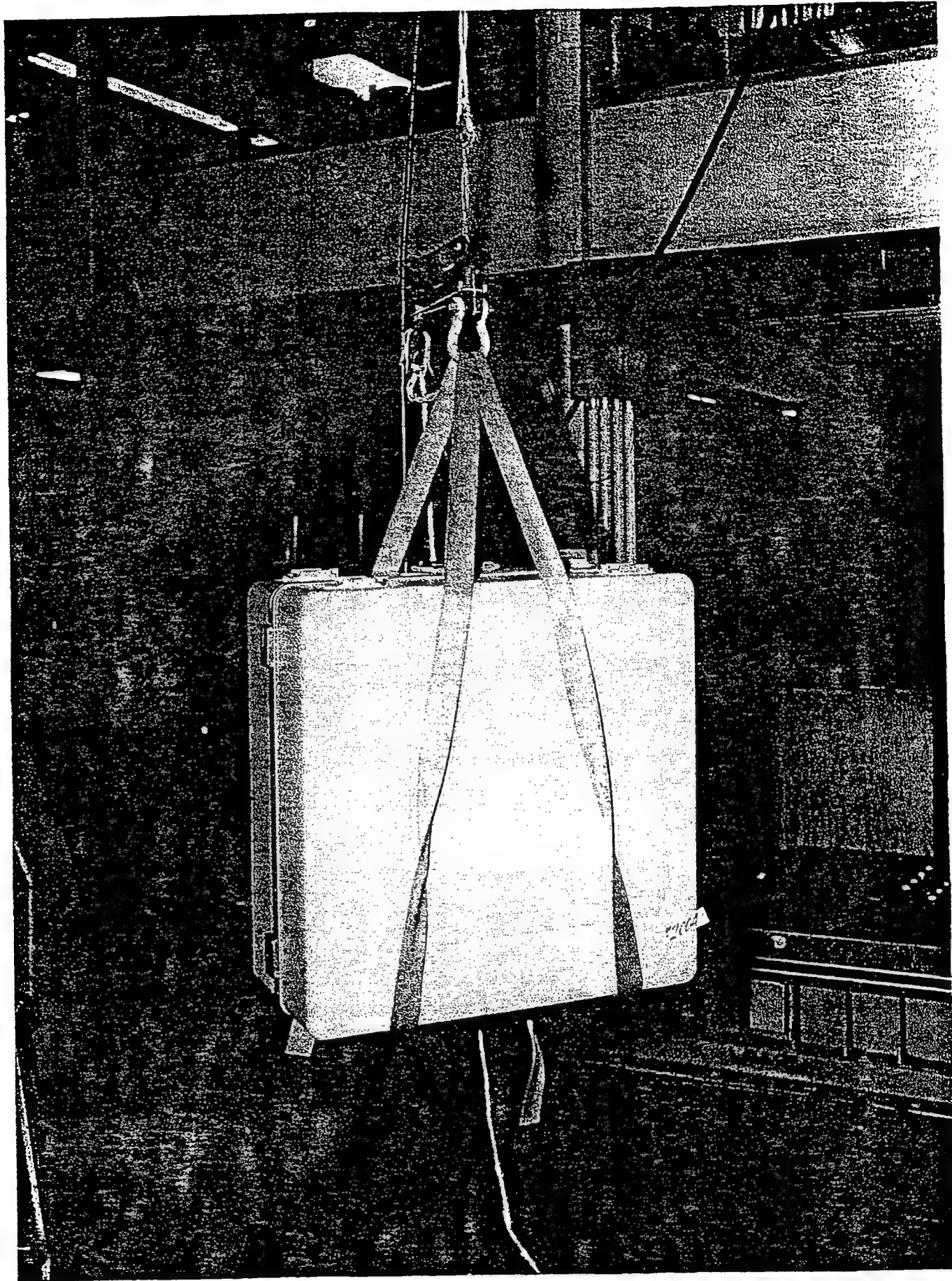


TESTED FOR & RPT'D. BY: NAV-COM INC. ITEM: MEGAPHONE  
 VIEW SHOWS THE TYPICAL VIBRATION (PROCEDURE I, BASIC TRANSPORTATION)  
 TEST SETUP WITH THE ALUMINUM DISK CONFIGURATION  
 JOB NO.: 407658-00-000 FILE NO.: 91-1941 DATE: 5 NOVEMBER 1991  
 DTB04R91-1135 ENCLOSURE: 9 PHOTO: 3



Founded 1950





TESTED FOR & APP'D. BY: NAV-COM INC.

ITEM: MAGNAPHONE

VIEW SHOWS THE TYPICAL DROP TEST SETUP

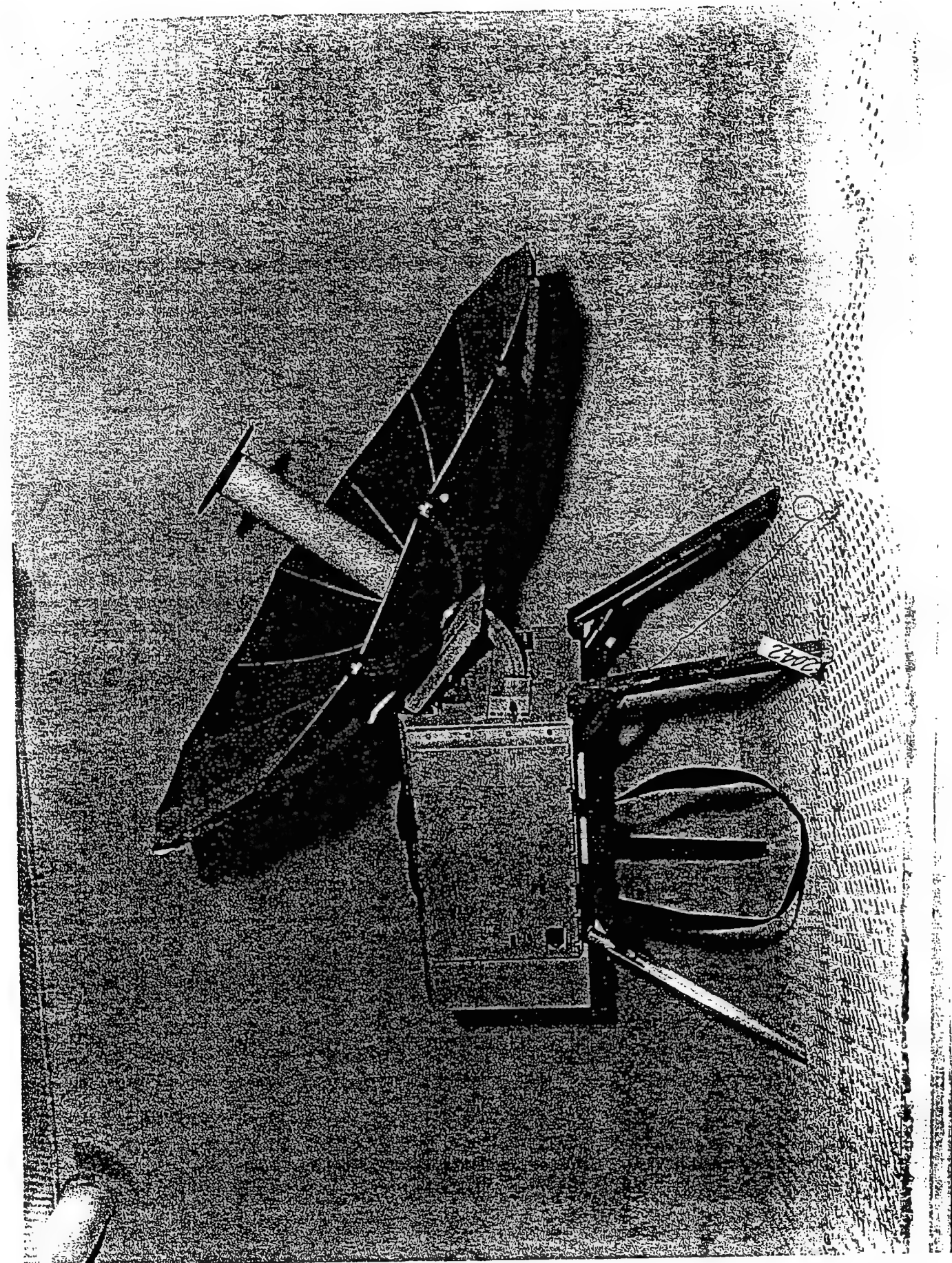
JOB NO.: 407658-00-000  
DTB04R91-1135

FILE NO.: 91-2004  
ENCLOSURE: 9

DATE: 20 NOVEMBER 1991  
PHOTO: 5



Founded 1950



TESTED FOR & RPT'D. BY: NAV-COM INC.

VIEW SHOWS THE SAME AND DUST TEST SETUP

ITEM: RADIOPHONE

JOB NO.: 407658-00-000  
DTB04R91-1135

FILE NO.: 91-2042  
ENCLOSURE: 9

DATE: 2 DECEMBER 1991  
PHOTO: 7



Founded 1950

## APPENDIX E

# Defense Automatic Addressing System (DAAS) Special Processing Rules

# Defense Automatic Addressing System (DAAS) Special Processing Rules

This appendix is extracted directly from Appendix B, DoD Instruction 4000.25-10-M. All page numbers reflect the document's numbering in their source instruction.

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Appendix B4	Marine Corps	B4-1
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APPENDIX B1  
DEPARTMENT OF THE ARMY

1. Army International Logistics Program (ILP). Army ILP requisitions and other A-series documents to or from the country, if not received from the U.S. Army Security Assistance Center (USASAC), are routed to USASAC. When received from USASAC, these documents are processed the same as non-ILP documents. Status documents are forwarded by mail to addressees which are furnished by USASAC.

2. DAAS Transmission of Army Documents Images. To provide Army data required to maintain the Logistics Intelligence File (LIF), and provide more accurate and timely billing, DAAS transmits copies of documents to the Army activity specified.

a. All Army "A" series (other than MAP) documents to U.S. Army Logistics Control Activity (USALCA), Presidio of San Francisco, CA.

b. All Army excess report and followup (FT\_) (other than MAP) documents to USALCA, Presidio of San Francisco, CA.

c. A5\_, A6\_, AR\_ documents with "B" in position 30 to USASAC.

d. FT\_ series documents (Materiel Returns Program) with "B" in column 30 to USASAC.

e. Selected DI Code "A" series documents with S9M in positions 4-6 and DI Code D6S documents with "U" in position 54 to U.S. Army Medical Materiel Agency (USAMMA).

f. Selected FTR documents from S9M to Army Surgeon General.

g. MRAD images to the Army Armament Command (ARRCOM) when the FSG (positions 8-9) is 13 or the FSC (positions 8-11) is 8140; MRAD images to the USALCA when the Service Code (positions 30-45) is A, C, or W and the FSG is other than 13 or the FSC is other than 8140.

h. DIC BAY and BAZ documents routed to RIC in positions 4-6 with an image to the USALCA, Presidio of San Francisco, CA.

i. DIC XOA is forwarded as an image to the USALCA, Presidio of San Francisco, CA.

j. DIC X8T is routed to RI code in positions 4-6.

k. All supply/shipment status for Army Total Packaging/Unit Materiel Fielding (TP/UMF) requisitions (Alpha A-F in position 40) are routed to position 54 only.

3. Procedures for Army Overseas Medical Documents. To provide the Army with data to control the requisitioning of medical items, the DAAS routes designated status documents to the U.S. Army Medical Materiel Center, Europe (USAMMCE), and provide images of designated documents to USAMMA:

a. All requisitions (AO), requisition modifiers (AM), requisition followups (AT), passing orders (A3) and referral orders (A4), originating overseas (numeric in position 3), with W in position 30, are routed to S9M when the NSN source of supply is S9M or D9M. In addition, DAAS overlays position 7 with S and if position 54 is blank, inserts U (USAMMA).

b. On supply status (AE1, AE2), shipment status (AS1, AS2) and replies to cancellation requests (shipment status) (AU1, AU2), when positions 4-6 is S9M, position 30 is W and position 54 is U, and the activity in positions 30-35 (AE1, AS1, AU1) or positions 45-50 (AE2, AS2, AU2) is coded for USAEUR, the document is routed to USAMMCE.

c. On Materiel Obligation Validation (MOV) requests (AN), when positions 4-6 is S9M, position 30 is W, and the activity in positions 30-35 of AN9/ANZ document is coded for USAEUR, DAAS routes the entire AN9/ANZ batch to USAMMCE.

4. Distribution of MILSTRIP Supply/Shipment Status Transactions to Army Europe (USAREUR). Supply and shipment status transactions are routed to USAREUR Activities (Service Codes A, C, or W in position 30 or position 45, and G, Q, V, W, or X in position 54) using the following logic:

a. Provide A3 supply and shipment status documents (to include transactions related to requisition rejection/cancellation) to Army activity identified by the distribution code.

b. Terminate all status addressed to requisitioner (positions 30-35) or supplementary address (positions 45-50).

5. Processing Replies to Customer Excess Reports (DOC ID FTR) with Status Code SD (NSN not identifiable). Army generated FTRs (with B in position 4) with Status Code SD are passed by DAAS in accordance with the media and status code in position 7. These document are not converted to FTE and are returned to the ICP for resolution. If applicable, the DAAS program purges the record of the originating FTE from the DEpra.

6. Deletion of Distribution Code F. DAAS deletes Distribution Code F (position 54) from selected A series documents when position 30 is A, C, or W. The field is left blank.

7. Fund Code Edit of H-Series DoDAAC Requisitions and Reports of Excess. DAAS edits all AO, A3, A4, AM, AT and FTE documents with an H-series bill-to DoDAAC. If the DoDAAC is not one that DAAS has been advised by the Army as authorized for interfund billing, DAAS ensures that the fund code is "XP" (SF 1080, Voucher For Transfers Between Appropriations and/or Funds, billing only) prior to forwarding the document to the SoS.

8. Fund Code Edit of A, C, W, Series DoDAAC Requisitions and Reports of Excess. DAAS edits for a valid Army fund code (positions 52-53) under the following conditions: if document identifier is AO, AM, AT, A3, A4 or FTE and position 51 is A or J and position 30 is A, C, W or if position 51 is B or K and position 45 is A, C, W then positions 52-53 must equal a valid Army fund code contained in DoD 4000.25-7-S1.

b. If the subscriber is NAS Barbers Point and:

(1) The Navy SoS is S9M with AAC "F," "I," "K," or "L," DAAS insets 2A in positions 65-66 and routes document to DPSC (RI Code S9M).

(2) The Navy SoS is other than S9M and the AAC is "K," DAAS routes document to NSC Pearl Harbor.

(3) The Navy SoS is other than S9M and the AAC is "F," "I," or "L," DAAS inserts CP in positions 65-66 and routes to NSC Oakland (NOZ) for local procurement.

c. If the subscriber is NAS Norfolk or NSY Norfolk or NAS Oceana and the Navy SoS has AAC "F," "I," "K," or "L," DAAS routes the document to NSC Norfolk (NNZ).

d. If the subscriber is NSC Norfolk or NSC Oakland, there is an IMM SoS (other than GSA) and the Navy SoS has AAC "K," DAAS inserts Advice Code 2A in positions 65-66 and routes to IMM SoS.

e. If the subscriber is NAVILCO and the SoS is D9\_ or XDG, DAAS inserts CP in positions 65-66 and routes document to NSC Norfolk or NSC Oakland depending on the country code in positions 31-32.

f. If the subscriber is an overseas or mobile unit Navy activity (N, P, K, R, or V - position 30), DI code is AE1 and supply status in positions 65-66 equals CW, an A41 referral document is generated and routed to NSC Norfolk (NNZ) or NSC Oakland (NOZ) depending upon geographical location of the activity. If DI code is AE1, AE2, or AE3 with above conditions, the supply status code is changed to BM and NNZ or NOZ as appropriate is entered in positions 67-69. AE2 and AE3 status documents with CW status do not generate an A4\_ referral.

### 3. Mobile Units Utilization of AUTODIN Data Pattern Terminals

a. Ships in port and other mobile units may utilize nearby AUTODIN data pattern terminals. This may be accomplished through collaboration between the mobile unit and the data pattern terminal by assigning a temporary COMM RI to the mobile unit. The temporary COMM RI would be assignment of a seventh digit to the COMM RI assigned to the host data pattern terminal. Only DAASO would need notice of the temporary code assignment. DAAS records would normally be updated at the change of raday or under emergency conditions immediately (or at a specified time) for all facilities at both the Dayton, OH, and Tracy, CA locations. Logistics data for the mobile unit would then be transmitted to the temporarily assigned AUTODIN data pattern terminal. DAAS would at change of raday or under emergency conditions immediately, or at a specified time, revert to the normal communications media upon receipt of notification that the mobile unit has been redeployed. When possible, requests will be for change at raday with as much advance notification as possible.

b. A DAAS dual route option expands this capability to provide a duplicate copy via formatted message of:

(1) Priority 01, 02 or 03 (IPG 1) logistic documents.

Naval Weapons Stations in the supplementary address field to monitor ship loadouts.

b. DAAS furnishes Aviation Supply Control Center (ASCC) 80/80 images of selected A series MILSTRIP documents with the letter "G" in position 40. After creation of the ASCC image, but prior to routing, DAAS suppresses the weapon system designator code in positions 21-22 to enable documents to process in non-Navy systems. (DAAS also provides the ASCC images of selected FMS documents when an FMS customer purchases this service.)

c. Images of AB3, AF3, AS3, and AU3 documents containing "PAT" positions 30-32 and selected cases positions 48-50 identifying an International Support Agreement are provided to the Intra Fleet Support Operations Team (ISSOT), San Diego, CA.

d. DAAS provides images of Navy AMMO (CAIMS) AF1 and AS1 status documents containing selected Cognizance Symbols (COG) in positions 55-56 to the Ships Parts Control Center (SPCC). (DAAS also provides SPCC images of Ship Alteration requirements.)

e. Images of selected "A" series and BAC (NMCS/PMCS completion notification cards) are provided to the F4/Broad Arrow Monitor.

f. DAAS furnishes the Navy Field Branch, Bureau of Medicine, images of Navy medical excess report response (FTR).

g. Images of AC, AM, AF1, AF1 and AS1 Navy MILSTRIP documents containing "W" in position 40 are provided to the Navy CASREP Monitor, FMSO.

h. DAAS creates AIRPAC images of Navy NMCS/PMCS ("G" position 40) Pacific aviation materiel documents (AO, A4, AC, AF, AK, AM, AP, and AT) for the Pacific Fleet Aviation Materiel Office.

i. DAAS furnishes images of requisition/Status documents to the Navy Petroleum Office (NPO) for Prepositioned War Reserve Material Stocks (PWRMS) of packaged petroleum products in FSC 9150. This NPO monitoring requirement applies to 14 Navy activities and was developed as a result of the release of "in place" PWRMS assets to meet operational needs.

j. DAAS furnishes the appropriate TYCOM images of all BK (Navy Stock Fund/Depot Level Repairable) documents sent to and received from units under their command.

k. DAAS provides images of the MRAD (D6S) documents to the Fleet Material Support Office (FMSO) of DLA shipments to Navy activities (excluding those with an "S" in card column 7). These images are identified with an "A" in column 7.

l. DAAS provides SPCC with a monthly tape (80 column images) of AO requisitions which were originated by the Navy (Service Code N, R or V in column 30) and sent directly to a DLA, GSA, Army, Air Force, or Marine Corps SoS. The Navy uses this demand data to analyze potential changes to shipboard load lists and Best Replacement Factor (BRF) computations.

# APPENDIX B3 DEPARTMENT OF THE AIR FORCE

1. Fund Code Edit. Requisitions (AO ), passing orders (A3 ), referral orders (A4 ), requisition modifiers (AM ) and followups (AT ) from Air Force activities are edited by the DAAS to assure the fund citation and the destination SoS are compatible. Documents with no fund citation and a DAAS SoS other than Air Force are intercepted by the DAAS and returned to the originator as an "AE9" document with Status Code CM in positions 65-66.

a. MILSTRIP requisitions (AO ), passing orders (A3 ), referral orders (A4 ), requisition modifiers (AM ), followups (AF1/AF2, AK1/AK2, and AT ) and cancellations (AC1/AC2) containing Fund Code 6C/6H that reflect a conflict between the supply source and the fund citation are changed by DAASO to reflect the correct SoS and appropriate signal and fund code. In these instances, the DAAS will generate an AE9 document with Status Code FQ entering changes, as appropriate, in positions 51, 52, 53 and 67-69 (applicable to Fund Codes 6C/6H only).

b. Exceptions to the preceding edits occur when any of the following conditions exist. These exceptions will preclude DAAS edits for fund code errors.

(1) Documents containing Fund Code 6C and Advice Code 2A.

(2) Documents containing a "D" or "E" in the first position of the RI code (position 4).

(3) AO , A3 , A4 , AC , AF , AK , AM , AT documents containing RI code B14 in routine 4-6.

(4) AF Followup documents containing an RI code of F92 (positions 4-6).

c. Air Force AO , A3 , A4 , AM or AT documents containing an "R" in positions 53 and other than EZ in positions 30-31 will be returned to the originator as an AE9 document with Status Code FE entered in positions 65-66. An "N," "9," or "E" in position 62 or an A, W, or N in position 45 of these documents will preclude this edit.

d. Air Force originated A3 passing order, AT followup and AM requisition modifier documents containing FMS/GA requisitioner codes are edited for proper fund code citations. If the receiving SoS is Air Force, DAAS passes the document only if the fund code is 4F or NU, rejecting the document if not Fund Code 4F or NU. If the receiving SoS is not Air Force, DAAS ensures that the fund code is NS if the first position of the supplementary address field is Y, and 3L if not Y, changing the fund code if necessary and advising the passing order originator of the change with the AE9 document containing Status Code FQ.

2. Critical Item Report Edit. Reports of critical items are processed by DAAS to assure routing to the addressee reflected in positions 1-3 of the

Any Air Force P/N requisition not converted to an NSN, and not satisfying the criteria above, will be returned to the originator as an AE9 document (positions 1-3) with Status Code CP (positions 65-66), advising local procurement.

5. Air Force Munitions Document. BAO (requests for reconciliation); AO (requisitions); AC (Cancellations); AE, AK, and AT (followups); AM (requisition modifiers) and AP (responses to reconciliation requests) that contain RI Code F05, in positions 4-6 will be passed to RI Code F05.

6. AVFUEL Management Accounting System (AMAS) Document Processing. Transient aircraft report transactions through the DAAS to their home base Accounting and Finance Office. DI codes are XFC, XFD, XFE, XHF, XRF and XVG. Messages containing AVFUEL documents output by DAAS are identified by CIC "FFEH" and a text header directing delivery to the Accounting and Finance/Comptroller Office.

7. Combat Supplies Management System (CSMS) Document Processing. The CSMS transmits selected data to the DAAS using XT series DI codes. Based on the DI code and special coding within the document, DAAS transmits document copies to as many as four Major Commands (MAJCOMS).

APPENDIX B4  
MARINE CORPS

1. Special Routing of Marine Corps Documents. The following special routing rules are applied to Marine Corps requisitions, passing orders, referral orders, and reports of excess:

a. If the DI code is AOA/A01, position 30 is L or M and:

(1) If positions 4-6 are NVZ, NZZ, HR1, MHQ, MAX, MAU, or position 8 is zero, pass the document to the RI code in positions 4-6.

(2) If position 51 is W or X, route to RI Code MPB regardless of IMM SoS.

(3) If (1) and (2) above, do not apply and there is an IMM SoS, route to IMM SoS.

(4) If there is no IMM SoS and:

(a) If there is an Army source, route the document to that source.

(b) If there is no Army source, pass the document to the RI code in positions 4-6, if valid; otherwise return the document to the originating COMM RI.

b. If the DI code is A3A/A31/A4A/A41, the submitting source code (position 74) is M, and:

(1) If position 8 is zero, pass the document to the RI code in positions 4-6.

(2) If position 30 is M, position 51 is W or X, pass to RI Code MPB regardless of IMM SoS.

(3) If (1) or (2) above, do not apply and there is an IMM SoS, route the document to that source.

(a) If there is no IMM SoS but there is an Army SoS, route the document to that source.

(b) If there is no Army SoS, pass the document to the RI code in positions 4-6, if valid; otherwise return the document to the originating COMM RI.

c. When DAAS changes the RI code furnished in positions 4-6 of the incoming AOA/A01/A3A/A31/A4A/A41 (paragraphs 1a(2), 1a(3), 1a(4), 1b(2), and 1b(3), above) and routes the document to the new RI code, an AE9 document with Status Code BM is transmitted to the:

(3) If there is no SoS on DAAS file, terminate and generate AE9/CG status to status recipients based on position 7, position 54 and positions 74-76.

(4) If document is routed to IMM or Army source, compare positions 8-11 (FSC) with DAAS SoS file.

(a) If equal, place X in position 22.

(b) If not equal, overlay positions 8-11 with DAAS FSC and place X in position 22.

(c) If NSN is coded inactive, place an I in position 44.

(d) If FSC is changed, generate AE9/BG to status recipients based on position 7, position 54 and positions 74-76.

4. Special Routing of DIC FTE Documents. The following special routing rules are applied to Marine Corps DI Code DTE documents:

a. If the DI code is FTE, position 30 is L or M, and:

(1) If positions 4-6 are HR1 or position 8 is zero, pass the document to the RI code in positions 4-6.

(2) If position 51 equals W or X, route to RI Code MPB regardless of IMM SoS.

(3) If (1) and (2) above do not apply and there is an IMM SoS, route the document to that source.

(a) If there is an Army SoS, route the document to that source.

(b) If not, pass the document to the RI code in positions 4-6, if valid; otherwise return to the originating COMM RI.

b. When DAAS changes the RI code furnished in positions 4-6 of the incoming RI Code FTE and routes the document to the new RI code, a DI Code FTQ is transmitted to the originator of the document.

5. Document Control by Marine Corps Logistics Base, Albany, Georgia (MCLB Albany). To provide Marine Corps data required to maintain the Logistics Information System (LIS), DAAS transmits images of selected documents to the MCLB Albany. These document identifiers and codes are:

a. AO, A3, AT, AF, or AM containing "M" in position 30 and either 01, 02, 03 in positions 60-61 or E, N, or 9 in position 62.

b. AC, AE, AS, or AU containing "M" in position 30 and 01 through 08 in positions 60-61. Additionally, all AE containing "M" in position 30 and "C" in position 65.



APPENDIX B5  
DEFENSE LOGISTICS AGENCY

1. NSN Validation and Source Edit of Requisitioning Documents DI Codes A01, AOA, A31, A3A, A41 and A4A. The DSCs edit logistics documents by validation of the NSN. If the DSC edit cannot identify the NSN, the following DSC/DAAS rules apply:

a. When the FSC edit reveals the FSC and the NIIN do not comprise a valid NSN managed by that DSC, a transaction with DI Code CG\_ will be transmitted to DAAS which will contain all of the data from positions 3-80 of the original requisition document.

b. When a document with DI Code CG\_ is received, DAAS will perform an NSN source edit and if:

(1) (This paragraph is not applicable to CG\_ documents generated by the Defense Personnel Support Center (DPSC) RI Code S9S, S7S, S9P, and S9T.) The NSN belongs to another SoS, but does not require an FSC change, DAAS will transmit:

(a) To the SoS in DAAS records, a DI Code A4\_.

(b) To the submitting DSC, a DI Code AE9 with Status Code BM in positions 65-66 and the "change to" RI code in positions 67-69.

(c) To the status recipients, a DI Code AE9 with Status Code BM in positions 65-66 and the "change to" RI code in positions 67-69.

(2) (This paragraph is not applicable to CG\_ documents generated by the DPSC S9S, S7S, S9P, and S9T.) The NSN, after FSC change, belongs to another SoS, and:

(a) The requisition document is other than Navy, DAAS will transmit:

1 To the submitting DSC, a DI Code CG\_ with Status Code CG in positions 65-66.

2 To the status recipients, a DI Code AE9 with the original NSN and Status Code CG (Rejected) in positions 65-66.

(b) The requisition document is identified as Navy with a Service Code of N, R or V in position 30, DAAS will transmit:

1 To the SoS in DAAS records, a DI Code A4\_. If the new SoS is a DSC, an X will be inserted in position 22 of the A4\_.

2 To the submitting DSC, a DI Code AE9 with status code BM in positions 65-66, and the "change to" RI code in positions 67-69.

(c) To the submitting DSC, a DI Code CG\_ with a Z in position 22 for Army/Air Force overseas requisitions.

c. When the DSC receives a document with DI Code CG\_ from the DAAS, the duplicate check will be bypassed. It will be determined whether or not the NSN in the document is assigned to that DSC and if the NSN:

(1) Is assigned to that DSC for management, change the DI code to that of the original document and process.

(2) Is not assigned to that DSC for management, research the DAAS/DSC files and reconcile/correct differences.

2. DoDAAC/COMM RI Cross-Reference File. DAAS prepares and furnishes this file to DCASRs, DSCs, and other requesting activities as required. The file contains the DoDAACs (excludes Civil Agencies' codes) and related COMM RIs for data pattern terminals. The file, which is available on magnetic tape, is maintained with daily update transactions (DI Code STA - Add, DI Code STD - Delete) that are transmitted via AUTODIN. Format for DI Code STA and STD is at appendix C5.

3. DLA Generated Requisitions. DAAS processes all DLA generated requisitions (DI Code A01 and A0A) in accordance with the IMM SoS. If no IMM SoS is available, the requisition is passed to the activity designated by the RI code, positions 4-6, furnished by the requisition initiator.

4. Medical Controlled Substances Reject Status Transactions. On a cyclic basis, approximately once per week, DAAS furnishes the control points, designated by the Services/Agencies, duplicates of MILSTRIP DI Code AE documents with Status Code CR that have been received from DPSC (RI Code S9M). Each Control Point is furnished only those selected documents that pertain to the respective Service/Agency.

5. Processing of P/N Requisitions. When DI Code A02/AOB requisitions are screened by DAAS for conversion to DI Code A01/AOA requisitions (see chapter 4, section N) the following rules apply for DLA:

a. When the FSCM-P/N combination does not match any NSN, a Z is inserted in position 44 of the DI Code A02/AOB requisition if it is passed to a DSC.

b. When the FSCM-P/N combination matches multiple definitive NSN(s), position 44 of the DI Code A02/AOB requisition will not contain a Z.

6. Edit of DSC Generated Passing Orders (DI Code A3 ) and Referral Orders (DI Code A4 ). DSC generated passing orders (DI Code A3\_) and referral orders (DI Code A4\_) are exempt from DAAS edit of DoDAAC.

7. MRAD Images. DAAS provides the Defense Personnel Support Center (DPSC-AM) with an image of all MRADs (DI Code D6S) that match the AS\_ shipment status for Routing Identifier Code (DI Code S9M).

APPENDIX B6  
GENERAL SERVICES ADMINISTRATION

1. FSC Edit. Requisition (DI Code AO ) routed to the GSA are edited by DAAS to ensure that the FSC in the requisition agrees with the FSC on the DAAS IMM SoS file. If the FSCs differ, DAAS will change the FSC in the requisition to the FSC on the SoS file. An AE9 document with Status Code BG will be sent to the appropriate status recipients. This edit applies only to routed requisitions, not to passed requisitions, passing orders or referral orders.

2. Document Routing. All "A" series documents forwarded to GSA will have positions 4-6 overlaid with the MILSTRIP RI code GSA and will be transmitted to the COMM RI of the GSA central router.

3. DI Code AT2/ATB and AM2/AMB Processing. DI Code AT2/ATB and AM2/AMB documents with GSA in positions 4-6 will be processed in accordance with chapter 4, section N. If the P/N is changed to an NSN, the DI code will be changed to AT1/ATA or AM1/AMA, as appropriate.

4. Edit of GSA Report of Excess Response (FTR) Documents. DAAS validates the SoS for all GSA originated DI Code FTR documents containing Status code SC. If the item is managed by GSA, and the FSC is correct, DAAS changes the status code to TC and forwards the FTR to the appropriate status recipient. If the item is managed by GSA, but the FSC is incorrect, DAAS inserts the correct FSC, changes the status code to 3T, changes the DI code to FTE and returns the document to GSA, advising status recipients of the change. If the item is managed by a SoS other than GSA, DAAS reroutes the document, correcting the FSC if necessary, and advising status recipients of the changes. If DAAS records reflect no SoS for the item, DAAS changes the SC status code to SD and forwards the FTR to the appropriate recipient.

APPENDIX B7  
COAST GUARD

1. Special Routing Of Coast Guard Documents. The following special rules are applied to U.S. Coast Guard requisitions:

a. If the DI code is A0A/A01 with a Z in position 30, and:

(1) If positions 45-50 contain Z71114, pass to RI code in positions 4-6.

(2) If positions 4-6 contain selected Navy RI codes pass to RI code in positions 4-6.

(3) If DI code is A0\_, positions 30-35 are Z50100, pass to RI code in positions 4-6.

(4) If positions 57-59 contain 70K, pass to RI Code ZNC.

(5) If there is a valid Coast Guard SoS (Z\_), route to Coast Guard SoS.

(6) If there is a G in position 4, pass to GSA.

(7) If there is a valid IMM SoS other than D9\_ or XDG, route to that SoS.

(8) If the IMM SoS is D9\_ or XDG, route the document to the appropriate source (S9\_ or GSA) and insert advice code 2A in positions 65-66.

(9) If the IMM does not show an SoS, route to the Navy SoS.

(10) If the Navy does not show an SoS, route to the AF SoS.

(11) If the AF does not show an SoS, route to the Army source, otherwise pass to RI code positions 4-6.

b. When DAAS reroutes a document in accordance with the above rules, DAAS provides an AE9 document with Status Code BM in positions 65-66 in accordance with M/S position 7.

c. If DI code in positions 1-2 are (AC, AF, AK, or AM) and position 3 is (1, 2, or 3) and positions 4-6 are ZIC, DAAS routes these documents using the criteria contained in paragraph 1 a above.

2. Special Rule for AE3 Documents. If an AE3 document with a "Z" in position 30, a valid Coast Guard distribution code in position 54 and "BA" supply status code in positions 65-66 is received by DAAS, it is terminated by DAAS. Exception status, only, will be routed to the distribution code.

3. Fleet Transmission of MILSTRIP Documents to DAAS. U.S. Coast Guard units afloat, detached or isolated should use the procedures contained in chapter 3, section D 3.

APPENDIX B8  
FOREIGN MILITARY SALES CUSTOMERS

Logistics documents destined for specified FMS countries which would normally be dispatched in accordance with chapter 4, subsection D 3, will be accumulated at DAASO on a weekly basis and dispatched on magnetic tape via the most expeditious U.S. Mail service to specified recipients. Close coordination will be maintained between the DAASO and the countries for return of the magnetic tapes to the DAASO.

## APPENDIX F

# Security Considerations in the Transmission of Logistics Information

# Security Considerations in the Transmission of Logistics Information

Appendix F is background information for security managers of units that use QSTARS. The Surgeons Office, the J-4, and the Joint Staff produced this information paper which provides guidance on INMARSAT usage and military security requirements.

UNCLASSIFIED

12 Jan 94

## INFORMATION PAPER

Subject: Security/Classification of Military Medical Information Transmitted VIA Commercial Satellites

1. Purpose. This paper provides security/classification guidance in the use of commercial satellites for transmitting medical information in support of military operations.

2. Key Points

- Inter-Service communications between medical units in support of military operations have historically been haphazard and often non-existent. Inter-Service communications become especially important in support of the total spectrum of health care from medical regulating to logistics/administrative support.

- The Services are responsible for planning and programming their communications requirements. Historically, medical units have not had priorities high enough to warrant assets capable of inter-Service or inter-theater communications. Units must often rely on use of communication assets external to their unit and often external to their location.

- Medical information in itself, is not classified, nor is the processing of that information. However, medical information can become an operations security (OPSEC) indicator in the context of a particular military operation. As medical information is accumulated, the statistical information may be determined by the operational commander to be classified information which could impact current operations. At that point in time, protection of the medical information is required. OPSEC measures to reduce or eliminate the indicators may entail restrictions on medical information dissemination. Automated Information Systems (AIS) that handle medical information must be able to implement the necessary OPSEC measures. These may include use of secure communications, additional AIS access controls, isolation of certain AIS elements from supporting communications networks, encryption of information, and acceptance of cover names or placeholders in lieu of data elements.

- One means for inter- and intra-Service passing of medical information is by commercial satellites. Military satellite systems have become saturated with traffic that is higher priority than medical information. The trend for the Services to shift lower priority satellite communications to the civilian sector has been increasing dramatically. Annex C, National Military Strategy Document, FY94-99, calls for "integrated allied and commercial satellite communication systems to provide additional capabilities



during national emergencies". In the concluding remarks of J6I's "C4I For the warrior", (an official vision and roadmap for present and future C4I support of our joint warfighting forces), the objective concept of C4I encourages wider use of commercial communications facilities and transmission systems in support of military tactical operations.

- The primary commercial satellite system used by the military is through COMSAT Corporation which is the U.S. signatory to the Convention on the International Maritime Satellite (INMARSAT) Organization Treaty. The INMARSAT system is a commercially operated international satellite system which provides analog voice and data service on a global basis. Many Navy combatants are currently using the INMARSAT system, though the INMARSAT use is not limited to maritime purposes.

- There are no legal restrictions on the use of encryption devices to encode information for transmission VIA commercial civilian satellites. However, the INMARSAT treaty does have clauses which limits its use "for peaceful purposes". Several legal rulings by the Department of Navy JAG, and the DOD General Counsel have not limited the use of the INMARSAT in support of Navy combatant operations. In fact, it is CNO policy that all government official business VIA the INMARSAT system must be encrypted using NSA approved cryptographic equipment. During Desert Storm, a legal interpretation was made that USN units could use INMARSAT in support of armed conflict, as they were operating under the auspices of United Nations Security Council resolutions.

- The use of COMSEC equipment on board the hospital ships was addressed by the Joint Staff legal counsel in Jan 91. Art. 34 of the 1949 Geneva Convention for the Amelioration of the Condition of Wounded, Sick and Shipwrecked Members of the Armed Forces at Sea, provides that "hospital ships may not possess or use a secret code for their wireless or other means of communications." The premise behind this prohibition is that hospital ships may lose their protected status in time of war if they are used, outside of their humanitarian purpose, to commit acts harmful to the enemy. Legitimate (non-harmful to the enemy) secure communications, whether radio transmissions, or VIA satellites, would be difficult to verify, if challenged. The Navy International Law Division, and USCENTNAV worked this particular issue in regards to support to DS/DS, and decided that once the ships were declared under Article 34 of the Geneva Convention, all COMSEC hardware would be removed from the hospital ships and stored.

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## APPENDIX G

# Theater Army Medical Management Information System (TAMMIS) Operating Instructions

# Theater Army Medical Management Information System (TAMMIS) Operating Instructions

This appendix provides specific instructions on the use of the U.S. Army's TAMMIS system. For more information, please contact the TAMMIS Project Office at (210) 828-5705. This appendix also includes information on the Army's CTASC-II computer hardware.

Basic Operating Instructions for the MX2020  
and the DAMES Software Program

NOTE: This INMARSAT phone has been preset for the 147th MEDLOG  
BN Ft. Sam Houston, TX.

1. Unpack terminal and place on top of the transit case or deploy by using the legs on the bottom.
2. Swing antenna around to the front. Unfold the antenna and rotate center-locking plate to the right to secure antenna sections. Tighten all six green colored bolts. (Do not adjust the four inner bolts used to remove the complete assembly)
3. Open telephone console by depressing small lever on the left side of the terminals back. Connect telephone/handset and plug in power. Turn unit on using power switch on the terminals right side. The unit must warm up 10-15 minutes prior to using.
4. Open large white envelope and open the MX2020P Magna Phone Installation and Operator's Manual to page 4 to determine which satellite you will be using based on the INMARSAT Coverage Regions Diagram. Then turn to Appendix G, pages 84-91 to determine what azimuth to shoot from your location.

(North Dakota is approximately W101 Longitude, N48 Latitude and Elevation 25) (Ft Sill is approximately W98 Longitude, N35 Latitude and Elevation 35) (Ft. Sam is approximately W98 Longitude, N29 Latitude and Elevation 35).

NOTE: The maps in Appendix G (pages 84-91) will be used to determine which satellite to use (Probably Atlantic East or Indian Ocean) and to find the approximate coordinates of the location the Magna Phone will be used in.

5. Press the [Enter] key on the telephone console to access the Main menu.
6. Press the [S] key to access the Set-Up menu.
7. Press the [A] key to Aim Antenna.
8. Press the [L] key and enter the latitude determined in step 4 (N29 for Ft. Sam) and press [Enter].
9. Press the [G] key and enter the longitude determined in step 4 (W98 for Ft. Sam) and press [Enter].

10. Press the [W] key and enter What satellite you are using (Minot AFB, Ft. Sill and Ft. Sam will all probably use 4 Atlantic West).
11. Press [Escape] key to exit the Aim menu.
12. Press the [E] key to access the Land Earth Station (LES) menu.
13. Press the [V] key to select Voice/Data transmissions.
14. Select USA Southbury/01 by using the [Prev] or [Next] keys and then pressing the [Enter] key to make the selection.
15. Press the [Escape] key to exit the LES menu.
16. Press the [A] Key to Aim the Antenna. The console on the Magnaphone will display an azimuth to shoot and and elevation. Point the Magnaphone in the direction indicated.
17. Press the [Escape] key to exit the Aim menu.
18. Press the [Escape] key to exit the Set-Up menu.
19. Press the [Status] key to display the current status of the Magna Phone.
20. Raise the antenna to the determined elevation by pulling the ring on the spring-loaded elevation protractor locking pin located on the right front of the Magnaphone. Move the antenna to the desired position and release the locking pin.
21. Adjust the direction (bearing) and elevation (inclination) for maximum signal strength by moving the entire Magnaphone slightly in either direction. Watch the red light indicators on the top of the terminal. The lock indicator will glow red when the unit is ready for operation. The signal strength as displayed on the telephone console should be from 100-105 for transmissions.
22. Connect the telephone line from the modem to the Main (J3) port located behind the right side of the telephone console.
23. Execute the DAMES program from the computer connected to the modem.

24. Enter 5 for Utilities.
25. Enter 7 for View/Edit Modem (Async) configuration.
26. The Dial Command necessary to use DAMES via satellite phone should be similar to the following:

ATDT\*9001

Where DT = Dial Tone, DP = Dial Pulse

\*9 = Request for Data Line to shore station operator

001 = Country Code

27. The Suffix Command necessary to use DAMES via satellite phone is as follows: #  
The # sign indicates the end of the telephone number to the shore station operator.
28. After making the necessary changes, press [F1] to Install the Configuration.

NOTE: You are ready to transmit to DAASC via DAMES and INMARSAT.

If the signal strength is weak, you may have to try again. If after the DAMES program dials the number, and the operator tells you the request is denied, you must try again.

Instructions for placing/receiving calls using the  
MAGNA-Phone

To make a call, dial using the following:

00 followed by the country code (USA=1)  
210 (Area Code/City Code/Satellite used)  
8285705 (Telephone Number)  
# (Indication to MAGNA-Phone of number completion)

Example 0012108285705# is the number to the TAMMIS  
Project Office in San Antonio, TX

To Receive a call from a telephone to your MAGNA-Phone, the  
calling party should dial the international access number (011),  
satellite code and MAGNA-Phone terminal ID number.

Satellite Codes - Atlantic East...871  
Pacific.....872  
Indian.....873  
Atlantic West...874

To Receive a call from another MAGNA-Phone, the calling party  
should dial the international access number (011), satellite code  
and terminal ID number followed by a #

The following are the MAGNA-Phone Terminal ID numbers being used  
during the test:

47TH Field Hospital	- Primary.....1517734
	Secondary....1517735
5TH Medical Group	- Primary.....1517740
	Secondary....1517741
147TH MEDLOG BN	- Primary.....1517736
	- Secondary....1517737
Nav Med Info Mngt Ctr	- Primary.....1517754
	Secondary....1517755

An example of a number from the 47TH Field Hospital MAGNA-Phone  
to the 147TH MEDLOG BN MAGNA-Phone using the Atlantic East  
Satellite code is as follows:

0118711517736#

Prepare File for Supplier Using DAMES on a DOS Personal Computer and an Army Tactical C2 Computer System

1. Turn on the Portable Computer.
2. Place a 3.5" disk in disk drive.
3. After the computer has booted and at the C:\> prompt, enter the following commands:  

```
cd dos [Enter]
format a:/n:9 /t:80 [Enter]
```

\* The system will instruct you to insert a new diskette into the diskette drive. Press [Enter] and follow the instructions given. When asked to label volume, just press [Enter]. You may format another diskette if necessary. This diskette must be formatted in this manner for it to work with the ATCCS.
4. Remove diskette from the DOS portable computer and place it next to the ATCCS computer.
5. On the ATCCS, Execute Prepare File For Supplier (3.3.2.4) or (3.3.2.1.5).
6. Press [F3] Next Dest and the system will display the suppliers Routing Identifier Code (RIC), unit name and number of records to be sent.
7. Press [F4] Select Sys/Media. Enter T for Automated Format and F for Communication Media, then press [F7] Return to Browse.
8. Press [F7] Send File.  

\* The system will print the MILSTRIP Requisition Report and the MILSTRIP Status Request Report. These reports may be filed. \*\*\*\*MAKE SURE YOU DO NOT HAVE YOUR DOS DISKETTE IN THE ATCCS AT THIS TIME!\*\*\*\*.
9. The ATCCS system will ask if the floppy is ready. At this time, make sure a Unix formatted diskette is in the ATCCS diskette drive and enter "y".
10. After the file has been transfered to the Unix diskette, quit screen and exit medsup.
11. Remove the Unix diskette from the ATCCS computer.



12. At the login prompt, enter "dames" and press [Return]. Turn to page 3.5.2.17-1 in the user's manual for more information on the DAMES utilities.
13. Enter a "4" and press [Return]. The Archive File screen will appear. You must highlight the "Supply materiel/status requests" file you prepared in step 9.
14. Press [F7] Go Process
15. Insert DOS formatted diskette into the ATCCS diskette drive.
16. Press [F3] Send By Floppy. The system will ask "DOS-Formatted diskette ready? (y/n):"
17. Enter "y" and the system will write the file to the Diskette in a DOS ASCII format.
18. After the file has been written to the diskette, press [F8] Quit Screen until you have returned to the DAMES menu.
19. Enter "5" and press [Return] to exit the DOS Function menu.
20. Remove the diskette from the ATCCS and place it in the DOS Computer diskette drive.
21. At the C:\> prompt, type "dir a:" and press [Enter] to insure the file was written to the floppy diskette. You will need to enter the filename displayed later in step 27.
22. Execute the DAMES program.
23. From the DAMES menu screen, enter a 3. The screen that appears will tell you if there are any records in your receive file. If there are any records in your receive file, you will need to purge them by entering a 2 for Receive File Processing, then enter a 7 for Purge the Active Receive File, then enter a 3 to exit to DAMES Main Selection Menu. This process should be performed every time after uploading status responses to the ATCCS computer. If there are no records in the Active Receive File, then enter a 3 to exit to the DAMES Main Select Menu.
24. Enter a 1 to Build/Create Messages.

25. You must select "Data-Pattern, To DAAS, with input from a user specified diskfile" by using the arrow keys and pressing [Enter] or by entering a 2.
26. You will be asked to enter TO Comm R/I and Content Indicator or press [Return] for default. The Comm R/I is the communication routing indicator used by DAASO for the intended receiver. Enter the Comm R/I and press [Enter].
27. You will now have to enter the filename of the data on the floppy diskette from step 21. Enter (EXAMPLE) a:DAMES.OUT and press [Enter].
  - \* You will see messages telling you that the file is being copied and how many records are copied. Then you will be asked if there are any more messages to build.
28. Enter n
29. Enter a 2 for Communication Menu (Transmit/Receive Messages).
30. Enter a 1 to Transmit/Receive Messages.

- \* The DAMES program will call the DAASO Computer in Dayton, OH and automatically transmit your requisitions and receive back any supply status you have. You will see the following messages on the screen when everything is transmitted and received successfully:

```
          Transmitting
        Total RECORDS to xmit:      XXX
XXX RECORDS xmitted  X MESSAGES xmitted (from the Transmit
File)
```

```
          DAAS Reply

XXX RECORDS RECEIVED  X MESSAGES RECEIVED
```

```
          Receiving
        Receiving Records:      XXX
XXX RECORDS written  X MESSAGES written (to the Receive File)
```

- \* You will see the following message on the bottom of the screen if everything was successful:

You have now received;

All supply and shipment status for your activity.

A six line message from DAAS confirming they are receiving your messages.

- \* If the transmission gets cut off for any reason, repeat steps 21 and 22 again.

THE FOLLOWING STEPS ARE WHAT YOU NEED TO DO TO LOAD/PROCESS FILE FROM SUPPLIER.

31. Return to the DAMES Main Menu.
  32. Enter a 3 for TRANSMIT/RECEIVE File Processing.
  33. Enter a 2 for Receive File Processing.
  34. Enter a 6 for Mils Type Data (Only) Processing Menu.
  35. Enter a 3 for Write Mils Transactions to (Diskfile). You will be prompted with the following:
    - \* Enter Filename for output file (RETURN = exit).
- \*\*\*\*\*Make sure another floppy is inserted into the DOS computer and it was formatted in the same manner as step 3 above.
36. You must enter a: followed by a {filename}. and should look similar to this: a:filename
  37. Press [Enter] and records being written to your diskette will flash across your screen. When this process is finished, the status is ready to process on your ATCCS TAMMIS computer.
  38. Remove the diskette from your DOS PC.
  39. Insert the diskette into your ATCCS TAMMIS Medsup Computer.
  40. At the login prompt enter "dames" and press [Return].

41. Enter a "1" for Receive File From DOS Diskette and press [Return].

\* This function loads all the files from the DOS Diskette to the archive file with a record status of R-Received and may now be processed. Make sure the only files on the DOS diskette are to be loaded and processed and have not been processed before.

42. After the file has been loaded and the Archive File Maintenance screen is displayed, press [F8] Quit Screen.
43. Enter "5" to quit and press [Return].
44. Login to "medsup"
45. Execute Load/Process File From Customer (3.3.1.7) and press [F1] Proces Files.

\* This will take anywhere from 5 minutes up to an hour and updates the due-in records with the status received from your supplier. Your next step is to Review Due-In Status Referred To Manager.

NOTE: Once your sure that the file has been loaded and processed, you should purge the DAMES records that are in the active receive file. To do this, perform the following:

1. Execute DAMES on your DOS PC.
2. Select (3) TRANSMIT/RECEIVE File Processing.
3. Select (2) RECEIVE File Processing Menu
4. Select (7) Purge the active RECEIVE file.

To Up-Load Files From DAMES to TAMMIS (74Ds)

1. Press [F9] DAMES from the gmenu screen.
2. Press [F2] Dames Egypt
3. Enter a 2 for Communications Menu (Transmit and Receive files).
4. Enter a 1 for Transmit/Receive messages.
5. Press [return] to continue when the transmission is complete/successful.
6. Enter a 3 for Transmit/Receive File Processing.
7. Enter a 2 for Receive File Processing.
8. Enter a 6 for MILS Type Data (Only) Processing menu.
9. Enter a 3 for Write MILS Transactions to Diskfile. You will be prompted to enter a filename.
10. Enter "a:{filename}" The filename should be the last three numbers of the julian date followed by an R and should look similar to this: a:193R If receiving the second file of the day from DAMES, the filename should be followed by a 1 and should look similar to this: a:193R1
11. Press [return] after entering the filename in step 10.
12. Remove the diskette from the Zenith PC and place it in the Unysis Desk Top 3 computer.
13. Login to the Egypt Data Base.  
  
    Login: egypt2  
    Password: fluffy1
14. From the TAMMIS Medsup Master Menu, press [F5] Shell.
15. Enter "cd /data/cin/SAILS [return]"
16. Hold the [ALT] key down and press the [M] key.
17. Press the [S] key to Send.
18. Press the [U] key for Unixpcu.

19. Press the [T] for Text.
20. Enter b: followed by the {filename} used in step 10 above and press [return].
21. Enter the {filename} used in step 20 above and press [return].

NOTE: System will show you how many bytes have been transferred and will notify you of completion.

22. Notify SGT Corsi or SPC Bamman that a file needs to be loaded and processed in the Egypt Data Base.
23. From the DAMES Main Menu, press [5] for Utilities.
24. Press [6] View/Edit user configuration.
25. Press [F2] to reset all pointers to zero.
26. Press [3] Transmit/Receive File Processing.
27. Press [2] Receive File Processing.
28. Press [7] Purge Active Receive File.

TO LOAD/PROCESS INCOMING DAMES FILES (76Js)

NOTE: One of the 74D's (SPC Wicks) will tell you a file needs to be loaded.

1. Login to the EGYPT database

    Login:   egypt1  
    Password: brights1

2. Execute 3.3.1.7 Load/Process Incoming File

NOTE: Screen sls091 will appear.

3. Press [F4] Select Sys/Media function key.

NOTE: The cursor is positioned on the Automated Format field.

4. Enter "S" (SAILS) for Automated Format.

NOTE: The cursors moves to the Communication Media field.

5. Enter "I" (Internal) for the Communication Media field.

NOTE: The cursor moves to the File Name field.

6. Press [F6] Select to display the file to be loaded.

7. Highlight the file to be loaded and press [F1] Select Value.

NOTE: The system places the file name selected in the File Name field.

8. Press [F7] Return to Browse.

9. Press [F7] Load File.

10. After the file has loaded, press [F1] Proces Files.

NOTE: WORKING will appear on the screen and the file is loaded to the Archive File with a status of P (Processed).

11. Next, you should Review Requests Referred to Manager (3.3.1.1.2), work off any exceptions encountered and the Produce Customer Issue Documents for that customer's DODAAC (3.3.1.2).

TO PREPARE FILE FOR CUSTOMER VIA DAMES (76Js)

NOTE: Login to Egypt Data base:

Login: egypt1  
Password: brightsl

1. Execute Prepare File For Customer (3.3.1.6)

NOTE: Screen sls090 will appear.

2. Press [F1] Get Dest function key and enter the DODDAC of the unit for which you are preparing the file.

NOTE: The system will display the unit's name, the number of records to be sent, the automated format and the communication media information on the screen.

3. Press [F4] Select Sys/Media
4. Enter S for automated format, F for communication media and press [F7] Return to Browse.
5. Press [F7] Send File.

NOTE: System will prompt you to press [Y] when the floppy is ready.

6. Press [Y].

Note: The prompt "working" will appear and then an error.

7. Press [return] to continue.
8. Press [F8].
9. Execute Archived file processing (3.3.5.5)
10. Highlight the "Supply Status Responses" file for the customer who's file you just prepared.
11. Press [F7] Go Process
12. Press [F5] View File.
13. Record the filename displayed at the top left of the screen.  
It should look something like this: als\_a01772
14. Press [F8] Quit.
15. Press [F8] Quit Screen.



16. Give filename recorded in step 11 to one of the 74Ds  
(Spc Wicks, Ladonna or Pv2 Boreson or SGT Beatty).

To Down-Load Files From TAMMIS to DAMES (74Ds)

1. SGT Corsi or SPC Bamman will give you a {filename} that needs to be transmitted from the Egypt Data Base.
2. Login to the TAMMIS Egypt Data Base.  
  
    Login: egypt2  
    Password: fluffyl
3. From the TAMMIS Medsup Master Menu, press [F5] Shell.
4. Enter "cd ../archive [return]"
5. Enter the following command:  
  
    mkn1 80 {filename} {newfilename}[Return]
6. Hold the [ALT] key down and press the [M] key.
7. Press the [R] key for Receive.
8. Press the [U] key for Unixpcu.
9. Press the [T] key for Text.
10. You will be asked to enter a {filename}. Enter the {newfilename} entered in step 5.
11. You will be asked to enter a destination filename. It should be the last three of the julian date followed by an "S" and should look similar to this: b:193S
12. Press [return] after entering the filename in step 10.
13. After the file transfer process is finished, remove the diskette the the Unysis Desk Top 3 PC and place it in the Zenith PC.
14. From GMENU, press [F9] for DAMES
15. Press [F2] DAMES Egypt
16. Enter [1] to Build/Create Messages
17. Enter [2] for Data Pattern to DAAS with input from a user specified disk-file.

18. You will be asked to enter a COMM R/I or press return for default. Press [return].
19. Enter "a:{filename}" from step 11 above.
20. From the DAMES Main Menu, Enter [2] for communications menu.
21. Enter [1] for an automatic dial modem.

NOTE: The DAMES program will now call DAASC in Dayton, OH and will send the file and receive any files in your mailbox.

22. The DAMES program will prompt you when the files have been sent and ask you to press return to continue. Press [return].

NOTE: At this point you can follow the instructions on Up-Loading Files From DAMES to TAMMIS.

FORMAT DOS FLOPPY FOR ATCCS to DAMES TRANSFER

1. Insert floppy diskette into a/b drive
2. At the A:\ or B:\ prompt type the following command:

\*     format a:/n:9 /t:80   [Enter]

NOTE   System will instruct you to insert new diskette into diskette drive and press [Enter] when ready...

3.   Press [Enter]

NOTE   The system will check the existing format of the diskette and may ask to proceed with format. If so, answer "y".

NOTE   The system will respond with "Formatting 720K"

NOTE   When finished, the system may allow you to format additional diskettes. Now, you are ready to write requisitions from the ATCCS to your DOS formatted diskette.

Logins and Passwords to 147th Medlog Bn's EGYPT database

egypt1 {brights1}  
egypt2 {fluffyl}

Login and Password to 147th Medlog Bn's LIVE database

wbyrd {blakel}

---

How to add COMM R/I's and PLADs to your DAMES software

1. Execute the DAMES program.
2. Execute #5 - Utilities Menu
3. Execute #5 - PLAD File Menu
4. Execute #3 - Add a new Comm R/I and PLAD
5. Enter the COMM R/I to be added
6. Enter the Plain Language Address (PLAD) to be added, then press the [F1] key.

Bright Star Participant Information

147TH MEDLOG BN  
BEATY/SPC WICKS  
(210) 221-4318/5235  
471-5235/4318  
COMM R/I: RA800AA  
HOUSTON TX  
SATELLITE PHONE NUMBER: 151-7736/7737  
DODAAC: W80KVY  
SGT  
DSN  
PLAD: 147TH MEDSOM EGYPT FT SAM  
RIC: AGW  
FC/APC:

47TH FIELD HOSPITAL  
ALICEA/CPT POWELL  
(405) 351-3582  
DSN 639-3582  
COMM R/I: RA860AA  
FT SILL OK  
SATELLITE PHONE NUMBER: 151-7734/7735  
DODAAC: W44B7R  
SSG THOMPSON/CPT  
PLAD: 47TH FIELD HOSPITAL  
RIC: N/A  
FC/APC: V049/V047

1610ALSGP/MEDGP  
SMSGT GOOD  
(701) 723-5240  
574-7874 ext 2238  
COMM R/I: RA924AA  
1610ALSGP/MEDGP  
SATELLITE PHONE NUMBER: 151-7740/7741  
DODAAC: FM5810  
DSN  
PLAD:  
RIC: N/A  
FC/APC: 6B

NAVAL MED INFO MNGT CENTER  
ZIEMKE/LCDR LENNARD  
(301) 295-1940/3124  
295-1940/3124  
COMM R/I: RA767AA  
NORFOLK VA  
SATELLITE PHONE NUMBER: 151-7754/7755  
DODAAC: N46737  
LT  
DSN  
PLAD: NAVMEDATASERVCEN DET  
RIC: N/A  
FC/APC: PX

MEDLOG CO  
LT BUYSON  
(619) 725-3407  
DSN 365-3407  
COMM R/I: RA869AA  
FIRST SUPBN  
SATELLITE PHONE NUMBER:  
DODAAC: M97111  
PLAD: MEDLOGCO  
RIC:  
FC/APC: FG

USA MEDICAL MATERIEL CENTER EUROPE  
MAJ SPENCER

DSN 495-6408

MILSTRIP COMM R/I: RUQAABN

PLAD: USAMMCE

NARRATIVE COMM R/I: RUFDME

PLAD: USAMMCE

SATELLITE PHONE NUMBER: N/A

MILSTRIP DODAC: WK4FV1

RIC: CB6

FC/APC: N/A

DAMES/DAASO POC's and Telephone Numbers

Ms Kohlbacher.....DSN 986-5914  
Ms Blackmon.....Comm (513) 296-5914

---

MAGNA-Phone Satellite POCs

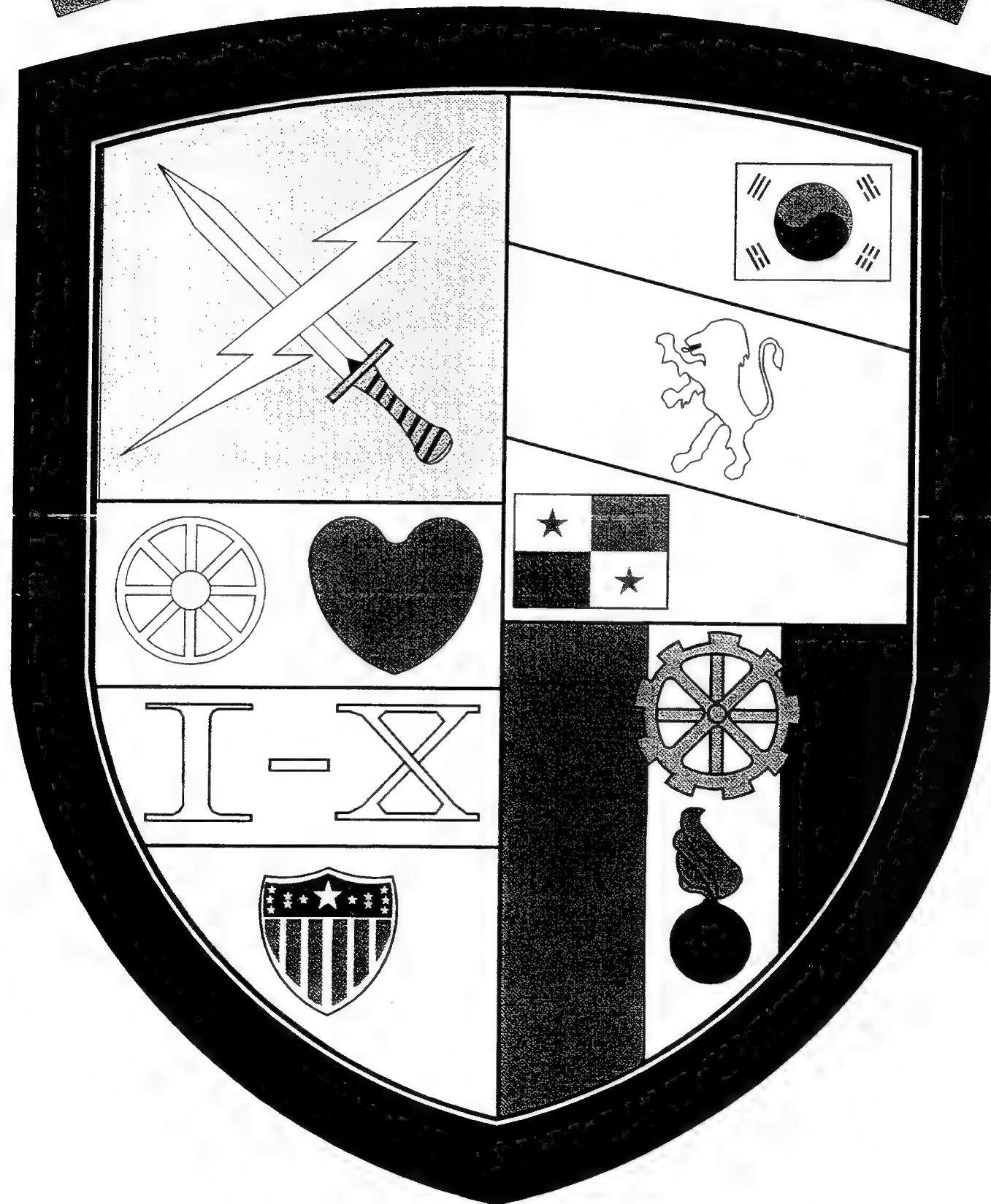
Mr. Phillip Allardice  
Spectrum Services International.....(703) 369-4997  
FAX.....(703) 369-9382

Mr. Pat Madigan  
Magnavox.....(516) 667-7710

Mr. Claud Chapmon  
ABLE Communications (Repair).....(713) 485-8800  
FAX.....(713) 485-8230



CTASC-II



## PROCEDURES FOR PROCESSING REQUISITIONS

### SETUP

#### \* PLACEMENT OF INMARSAT

IN FIELD ENVIRONMENT PLACEMENT MUST BE AWAY FROM ANY LARGE POWER SOURCES. I. E. GENERATORS

#### \* PERSONAL COMPUTER

MUST BE LOADED WITH DAASO AUTOMATED MESSAGE EXCHANGE SYSTEM ( DAMES )

#### \* MODEM INTERNAL EXTERNAL

MUST BE CONFIGURED CORRECTLY TO COMMUNICATE WITH INMARSAT. I. E. S REGISTERS MUST BE MODIFIED TO TIME OUT AT 200 SECONDS FOR HAND SHAKE WITH INMARSAT

INITIALIZATION, DIAL AND SUFFIX COMMANDS WILL VARY DEPENDING ON MAKE AND MODEL OF MODEM.

## PROCEDURES FOR PROCESSING REQUISITIONS

### PROCESSING

\* TROUGH DAMES SOFTWARE DIAL INTO DAMES IN DAYTON OHIO

\* ONCE LOGGED INTO DAMES NARRATIVE MESSAGES OR REQUISITIONS ( MILSTRIP DATA ) ARE AUTOMATICALLY RECEIVED

\* ALL REQUISITIONS ( MILSTRIP DATA ) IS DOWN LOADED TO THE PERSONAL COMPUTER WITH DAMES MENU SELECTION THEN TRANSFERRED TO THE CORP THEATER AUTOMATION SERVICE CENTER ( CTASC )

\* THE ITEM MANAGER THEN PROCESSES THE REQUISITIONS

\* ONCE PROCESSED THE ITEM MANGER PROVIDES THE 74D WITH A FILE NAME

\* WE DOWN LOAD THE FILE FROM CTASC TO THE PERSONAL COMPUTER WITH A PROGRAM IN UNIX WHICH PUTS THE MILSTRIP DATA INTO A STANDARD 80 COLUMN FORMAT

\* FILE IS UPLOADED INTO DAMES APPLICATION AND TRANSMITTED TO DAMES IN DAYTON OHIO ADDRESSED TO CUSTOMER VIA COM RI

## MEDICAL LOGISTICS SYSTEMS BATTLEFIELD COMMUNICATIONS

### \* APPENDIX C INMARSAT

There are two key issues that are relevant to the setup of the INMARSAT;

- \* Storage of the INMASAT during shipment should be in an area where there is no threat of condensation.

- \* By pressing \* 7 when lifting the receiver the INMARSAT will tell you by voice, " All boards are being initialized." This lets you know that the INMARSAT is in operational state.

### \* APPENDIX G MICRO-MICS Operating Instructions

In the communication from the modem to INMARSAT there is definite need for more information on modems. We have used in the tests internal and external modems which have had to be modified depending on the type of modem. Two key issues need to be addressed;

- \* The initialization, dial and suffix command is different depending on the modem.

- \* There are two S registers on the internal modem setup. This needs to be set at 200. It takes the satellite about 90 seconds to answer a modem signal. The normal setting on a modem is between 45 - 55 seconds.

### \* APPENDIX G MICRO\_MICS Continued ( DAMES )

I feel there is a definite need for more illustration and instruction on the DAMES menu portion in the following areas;

- \* Utilities menu has a PLAD file and a modem setup selection that is modified during set up. More instructions in both these areas.

AFTER ACTION REVIEW

CENTCOM TEST BETWEEN DAMES AND INMARSATS

26 JULY - 30 JULY

( 1 DAY PROBLEMS )

- \* DIALING UP VIA MODEM FROM THE 147TH TO DAAS.
- \* CHANGED TO ROBOTICS MODEM AND VARIED IN MODEM BAUD RATES
- \* PROBLEMS WITH MAGNA PHONE (INMARSAT). VENDER BROUGHT NEW INMARSAT TO 147TH, VENDER NEVER IDENTIFIED WHAT ACTUAL PROBLEM WAS ONLY INDICATED THAT WHEN INMARSAT IS FLOWN IN AN AIRCRAFT THAT IT BE IN A DECOMPRESURIZED COMPARTMENT. CONDENSATION BUILDS UP INTERNALLY. THERE IS NO INTERNAL VACUUM.

IN THE FOLLOWING DAYS WE RAN ACROSS MINIMAL PROBLEMS SUCH AS EXTRA SPACES IN MILSTRIP WHICH WE COULD NOT PROCESS STATUS, BUT ASSISTED IN RESOLVING THE PROBLEM. ( AIRFORCE & NAVY )

BRIGHT STAR

12 NOV - 19 NOV

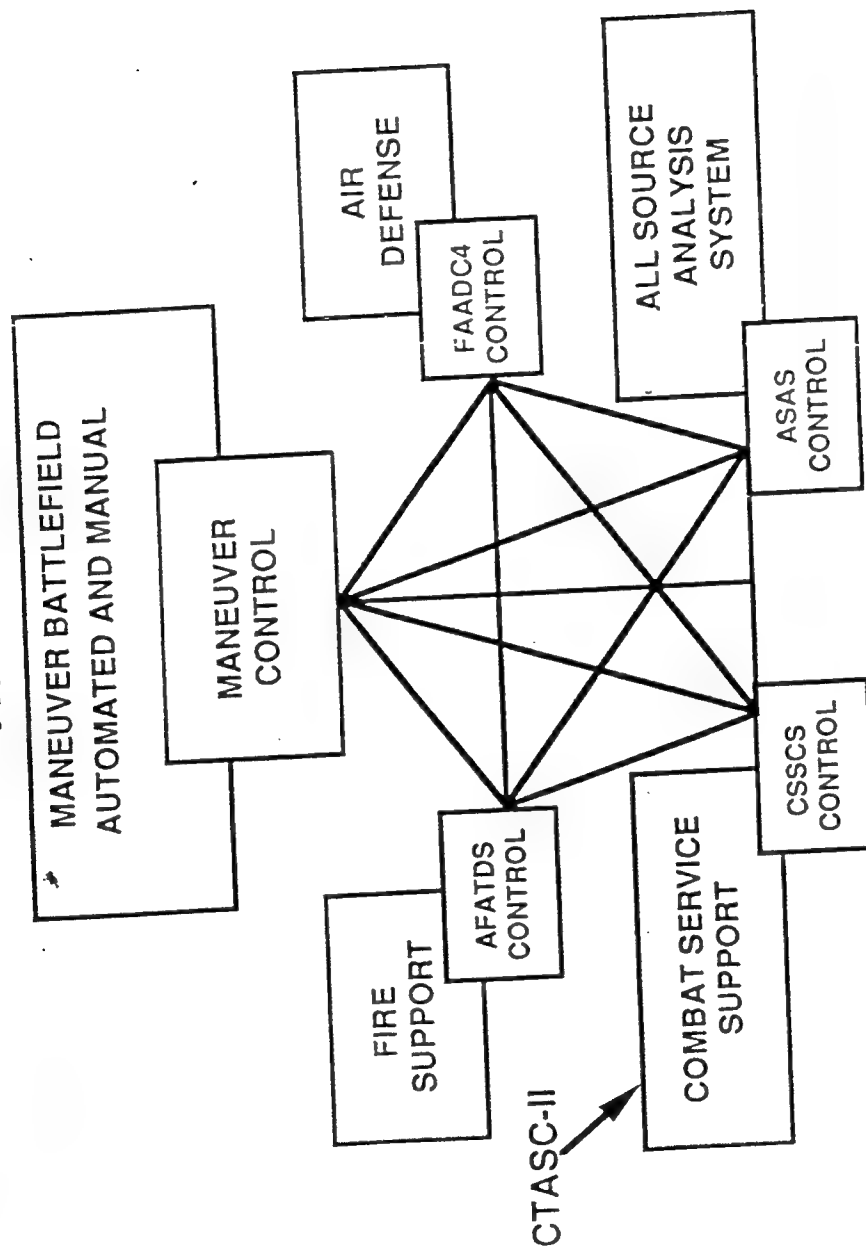
( 1 DAY PROBLEMS )

- \* DIALING UP VIA MODEM TO INMARSAT  
WE WERE UN AWARE THERE IS A 90 SECOND DELAY IN THE HANDSHAKE FROM THE MODEM TO THE SATELLITE. MOST MODEMS ARE SET AT 45 - 55 SECOND TIMEOUT IN THE S REGISTERS. THIS IS NOT ANNOTATED IN THE INMARSAT INSTRUCTIONS NOR MODEM INSTRUCTIONS. THIS WAS THE KEY TO A SUCCESSFUL TEST IN THE BRIGHT STAR MISSION. I FEEL IF WE HAD THIS INFORMATION IN THE FIRST DAY WE WOULD OF ELIMINATED THOSE FIRST DAY PROBLEMS.

SGT BEATY

# ARMY TACTICAL COMMAND AND CONTROL SYSTEM

## ATCCS



## CTASO II

# EQUIPMENT PURPOSE, CAPABILITIES, AND FEATURES

-Provides Information processing support for Logistical, Personnel and Medical Combat Service Support (CSS) at Corps and Echelons above Corps (EAC)

Improved Accuracy, timeliness, handling and transfer of critical data.

Requisition of supplies, ammunition, equipment, medical support personnel actions and transportation assets.

-Self Contained, fully mobile, high tech ADP facility

- Air transportable without re-configuration (C-130/C141/C-5A)

- Operation in different climatic areas of the world

- Mobile over rough terrain

- Continuity of operations, 24-hour operation under battlefield conditions

- Operate next to other systems without EMI Interference

- Accommodate multiple STAMIS simultaneously (Not doctrine - COOP only)

- Operate from a variety of power sources

- Adaptable to technology breakthroughs

# CTASC-II CHARACTERISTICS

## UNISYS 5000/95 Mini Computer System

- 64 Megabytes of RAM
- 14 - 1.02 GIGABYTE DISK DRIVES
- 9 - TRACK TAPE DRIVE
- STREAMING TAPE DEVICE
- ARCHIVE DEVICE
- 800 LPM SYSTEM PRINTER

UNISYS Desktop III Personal Computer  
used as operator's console



# CTASC-II CHARACTERISTICS

## Communications Subsystem

### Secure Data/Voice

STU III  
DSVT(KY68)  
KG-84A  
V.29 Modem  
Red Digital Patch

### Non Secure Data/Voice

DNVT  
V.22 Modem  
Black Digital Patch  
VF Patch

# CTASC-II CHARACTERISTICS

Communications Subsystem

Local Terminal Network

Fiber Optic Cable  
SPUR

Cluster Controller  
connect up to 128 users over  
two thousand feet away

6100 Null Modem  
provides connectivity for 8  
local users 250 feet away

Intershester Connectivity  
Omnimux 3200

MSE Connectivity through MSE Level Converter

# CTASC-II CAPABILITIES INTERFACE WITH :

## (CSS)

CTASC-1  
CTASC-II  
DAS 3  
TACCS  
CSSCS

## STAMIS

DAMMS-R  
SAMS-1/SAMS-2  
SARSS-2AC/2B  
SAAS-1/3, SAAS-4  
SIDPERS  
TAMMIS

# CTASC-II CHARACTERISTICS

## Support System

2 - 3600 BTU Environmental  
Control Units

1 - 9000 BTU Environmental  
Control Unit

3 - Modified CUCVs  
3 - Modified Shelters  
3 - Modified Trailers  
1 - SICPS Tent  
1 - Power DISE

Associated Power and  
Communication Cables

# **CTASC - II SOFTWARE**

**UNIX OS V.5.1 (5.3)**

**IDIS (Minis Menu**

**System)**

**Diagnostics**

**DDN**

**Exerciser**

**Map (Commo Protocol)**

**BLAST**

**SEES**

**3270 Emulator**

**2780/3770 Emulator**

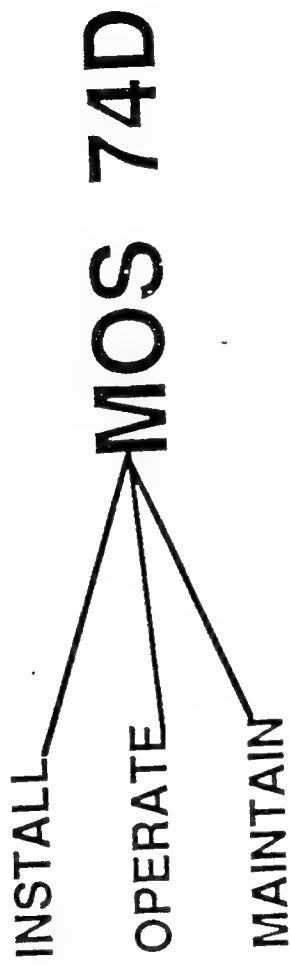
**OFIS**

**\*Z-29 BASELINE**

## **STAMIS APPLICATION**

**CORPS/THEATER AUTOMATIC  
DATA PROCESSING SERVICE  
CENTER, PHASE II**

**(CTASC-II)**



## CTASC-II CREW STRUCTURE

POSITION	MOS	RANK	QTY
CREW CHIEF	74D	E7	1
SHIFT LEADER	74D	E6	2
OPERATORS	74D	E5	2
OPERATOR	74D	E4	1
OPERATOR	74D	E3	1
TOTAL			7

# REVIEW

## CTASC-II CSS INTERFACES

CTASC I  
DAS 3  
TACCS  
ULC  
ATCCS  
DESKTOP III  
DDN  
AUTODIN

## Comm Subsystem

STU III  
DNVT  
DSVT  
Omnimux 3200 Mux  
6100 Null Modem  
Systech Cluster  
Fiber Optic System  
LTN  
Digital Patch  
VF Patch  
V.22 bis Modem  
V.29 Modem  
KG-84A  
SPUR

## Support Subsystem

3 - Modified CUCV W/Shelter  
3 - Modified Trailers  
2 - 36000 BTU ECU  
1 - 9000 BTU ECU  
1 - SICPS Tent  
Power Distribution System



# REVIEW

## CTASC-II HARDWARE UNISYS 5000/95

- 14 - 1.02 Gigabyte Hd
- 1 - 9 Track Tape Drive
- 1 - 8 mm. Archive Device
- 1 - Streaming Tape
- 1 - 800 Lpm System Printer
- 1 - 270 Cps Console Printer
- 2 - Console Terminal

## CTASC - II SOFTWARE

- \*UNIX OS V.5.3
- IDIS (Minis Menu System)
- Diagnostics
- DDN
- Exerciser
- Map (Commo Protocol)
- Blast
- SEES
- 3270 Emulator
- 2780/3770 Emulator
- OFIS
- \*Z-29 BASELINE
- STAMIS Applications

# CTASC-II MAINTENANCE CONCEPT

## OPERATOR:

PMCS - PREVENTIVE

UNIT - TROUBLESHOOTING:

DIAGNOSTICS

TEST EQUIPMENT

EXERCISER

REMOVE/REPLACE LRU

## DS: DIRECT SUPPORT

SCREEN/FORWARD

HOLD FOR CONTACT TEAM

COORDINATE SUPPORT (LAO/CONTRACT)

## GS: GENERAL SUPPORT

CONTRACTOR ON/OFF SITE

## DEPOT: CONTRACTOR

# OPERATOR IS THE KEY

# CTASC-II SECURE EQUIPMENT

KG-84A

KOI-18 (LOAD DEVICES)

KYK-13

DSVT (KY-68)

STU III

CRYPTOGRAPHIC CONTROLLED ITEMS - CCI

CONTROLLED BY SN

CONTROLLED BY QTY

MANAGED BY STANDARD ARMY LOGISTICS SYSTEM (SALS)

1. NO COMSEC CUSTODIAN - PBO
2. NO VAULT - DOUBLE BARRIER
3. UNCLASSIFIED - UNKEYED (STU-III ?)
4. CLASSIFIED SAME AS KEY - KEYED
5. CERTIFIED REPAIRMEN - AR640-15

DA PAM 380-40-22 CCI

AR 380-40 KEY

# CCI ACCESS

PERSONS REQUIRING ACCESS TO PERFORM THEIR NORMAL DUTIES

US CITIZENS

OTHERS CASE-BY-CASE

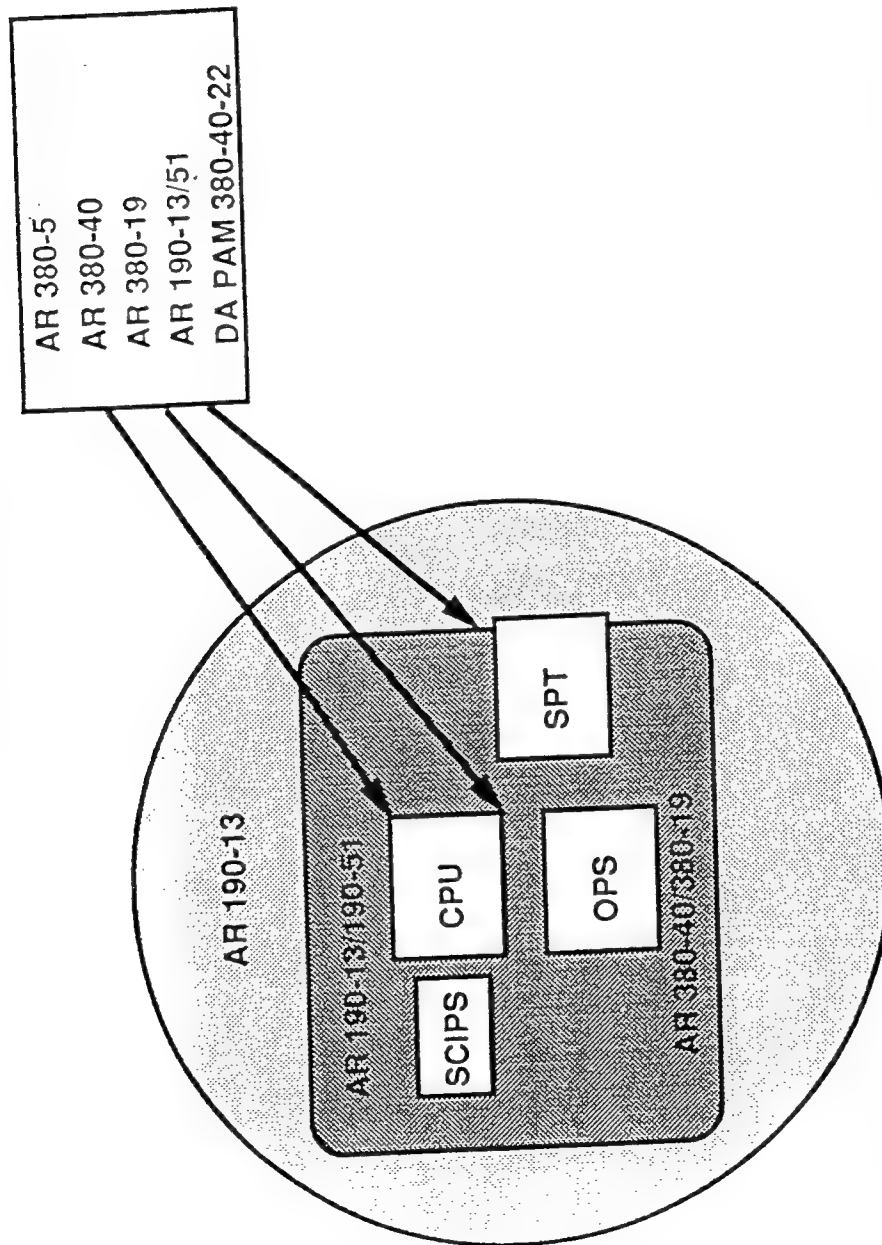
## **ACCESS (CONT)**

### **UNKEYED:**

ACCESS IS IN CONJUNCTION WITH BUILDING MAINTENANCE, CUSTODIAL DUTIES, OR OTHER OPERATIONAL RESPONSIBILITIES WHICH WERE NORMALLY PERFORMED BY SUCH UNESCORTED PERSONS PRIOR TO THE INSTALLATION OF CCI LOCATED IN A US-GOVERNMENT FACILITY OR HOST NATION FACILITY UNDER US-GOVERNMENT CONTROL RISK ANALYSIS IS DONE,

### **KEYED: IAW CLASSIFICATION OF KEY**

# SECURITY AREAS CTASC-II



## APPENDIX H

# Microcomputer Medical Inventory Control System (Micro-MICS) Operating Instructions

# Microcomputer Medical Inventory Control System (Micro-MICS) Operating Instructions

This appendix provides instructions for users of the U.S. Navy's Micro-MICS system. For more information, please contact the Navy Medical Information Management Command at (301) 295-1940 or 295-3124.

See also Appendices A and B for operating instructions relating to the Defense Automated Message Exchange System and the Streamlined Alternative Logistics Transmission System communications systems.



## USER'S MANUAL FOR MICRO-MICS/DASSO INTERFACE

REFERENCE: DAMES Program Manual

PURPOSE: The purpose of this manual is to provide instructions to end users on how to electronically transfer information from the Microcomputer Medical Inventory Control System (MICRO-MICS) to the Defense Automated Addressing System Office (DAASO).

### A. TRANSMITTING ORDERS:

#### BACKGROUND & PRECEDING STEPS

##### PROCEDURE:

1. BACK-UP your MICRO-MICS system via MICRO-MICS menu option.
2. Run the Daily Task from the main menu. Answer 'Y' or 'N' to the question 'DO YOU WANT TO RUN REPLENISHMENTS?'. If you answer "no" to replenishment, orders for items on "automatic" will not be processed.
3. After running the Daily Task, the user will be at the DOS prompt. Re-load MICRO-MICS (MM) by typing SUPPLY, and select the UTILITIES MENU option.

##### RESPONSE:

The UTILITIES MENU shown below should be displayed, the daily task should have been executed, and backup accomplished.

03/25/93

LOADING - UTIL MENU 1.0

Thursday

#### UTILITY MENU

1. VIEW REPORTS ALREADY CREATED
2. DAMES COMMUNICATIONS MENU
3. GENERATE BARCODES
4. SPECIAL FILE UTILITIES
0. QUIT

USE UP AND DOWN CURSOR KEYS TO HIGHLIGHT ITEM AND PRESS <RETURN>

##### PROCEDURE:

From the UTILITIES MENU select menu option (2) - DAMES COMMUNICATIONS MENU.

**RESPONSE:**

The DAMES COMMUNICATIONS MENU WILL DISPLAY.

03/25/93

LOADING - UTIL MENU 1.0

Thursday

**DAMES COMMUNICATIONS MENU**

- |         |                                 |
|---------|---------------------------------|
| 1. VIEW | 1. DAMES COMMUNICATIONS         |
| 2. DAME | 2. EDIT SUP1348.TXT FILE        |
| 3. GENE | 3. STATUS OF ORDERED ITEMS      |
| 4. SPEC | 4. COPY TRANSMIT FILE TO FLOPPY |
| 0. QUIT | 0. QUIT                         |

USE UP AND DOWN CURSOR KEYS TO HIGHLIGHT ITEM AND PRESS <RETURN>

**PROCEDURE:**

5. From the DAMES COMMUNICATIONS MENU select menu option (2) - EDIT SUP1348.TXT.

**RESPONSE:**

If no requisitions were generated, the following messages will display, and the MM system will return to the UTILITIES MENU.

TRANSMIT.TXT FILE DOES NOT EXIST, EITHER THE DAILY TASK WAS NOT RUN  
OR NO RECORDS ARE BELOW THE REORDER POINT

PROCESS ABORTED DUE TO LACK OF TRANSMIT.TXT FILE

**RESPONSE:**

If there were stock records below the re-order point, or orders were processed manually, or Prime Vendor Receipts were entered, requisitions were generated, and the file TRANSMIT.TXT was created. The MM system will display the following message.

DO YOU WANT TO MARK THE NEW RECORDS FOR DELETE N

**PROCEDURE:**

Enter 'Y' to mark all the records for delete, or 'N' to keep all the records generated by MM. Generally, the user will want to keep all the records (push the Enter key).

## RESPONSE :

03/26/93

SUPPLY 1348 SCREEN

Friday

ENTER THE NSN TO UPDATE  
PUSH F5 TO ADD A NEW RECORD  
PUSH F6 TO BROWSE DATABASE  
<ESC> TO EXIT

## PROCEDURE :

The UTILITY program will then allow the user to update the records in the database. Updating can be accomplished three ways:

1. By entering the NSN at the prompt.
2. By using the F6 key to BROWSE the data base.
3. By using the F5 key to add an item not generated by Micro Mics

If F5 is pressed, the following screen will display.

03/26/93

SUPPLY 1348 SCREEN

Friday

DOCUMENT ID:      ROUTING ID:      NSN:      FILLER:  
UNIT OF ISSUE:    ORDER QUANTITY:      REQUISITION NUMBER:  
DOCUMENT NUMBER:      DEMAND:      SERVICE:      SUPPLEMENT ADDRESS:  
SIGNAL CODE:    FUND CODE:      FILLER:    COG:      STOCK PROJECT CODE:  
PRIORITY:      REQUIRED DELIVERY DATE:      ADVICE CODE:  
FILLER:

If the F6 key is pressed, the following screen will display.

Record 2/2  
DOCID8 RTID8 MS8 NSN8      SPACE81 UI8 ORDQTY8 REQNR8 DOCNUM8 D8 S8  
AOA    S9M    S    11111111111111      AM    00013    N62753    3085C587 R    Y

After the user has completed updating (quantities may need to be adjusted, or records deleted- via the delete key on the numeric pad) the user should tap the <ESC> key two (2) times to exit the EDIT SUP1348.TXT menu option.

NOTE: If changes are made to the database in DAMES, remember to modify your due-in currently in MICRO-MICS.

**RESPONSE:**

PACK AND REINDEX IN PROCESS.. STAND BY....

1 RECORD EXPORTED TO TRANSMIT FILE

TRANSMIT.FILE FILE BEING CREATED,  
APPEND TRANSMIT.FILE INTO DAMES SOFTWARE

The computer will return to the UTILITY MENU.

03/26/93

LOADING - UTIL MENU 1.0

Friday

DAMES COMMUNICATIONS MENU

- |         |                                 |
|---------|---------------------------------|
| 1. VIEW | 1. DAMES COMMUNICATIONS         |
| 2. DAME | 2. EDIT SUP1348.TXT FILE        |
| 3. GENE | 3. STATUS OF ORDERED ITEMS      |
| 4. SPEC | 4. COPY TRANSMIT FILE TO FLOPPY |
| 0. QUIT | 0. QUIT                         |

USE UP AND DOWN CURSOR KEYS TO HIGHLIGHT ITEM AND PRESS <RETURN>

**PROCEDURE:**

The user should then select DAMES COMMUNICATIONS MENU. From the DAMES COMMUNICATIONS MENU the user should select menu option (1) - DAMES COMMUNICATIONS.

**RESPONSE:**

The DAMES menu will display.

STD Version 2.02

- 1 Build/Create Messages Menu
- 2 Communications Menu (Transmit/Receive Messages)
- 3 TRANSMIT/RECEIVE File Processing
- 4 Help (Instructions/Support)
- 5 Utilities Menu
- 6 Exit to GW-BASIC (basica) Interpreter
- 7 View GW-BASIC Error Codes, explanations
- 8 Exit to DOS

Select an option by number or use keys to select, then press RETURN

user id RA702AA

**PROCEDURE:**

The user should select menu option (1) - BUILD CREATE MESSAGES.

**RESPONSE:**

The BUILD CREATE MESSAGES MENU will display.

Build/Create Messages Menu

- 1 Data-Pattern, To DAAS, with CRT input using a 1348 form
- 2 Data-Pattern, To DAAS, with input from a user-specified diskfile
- 3 Same as #1, (SR) Selective Routing
- 4 Narrative, with routing via Comm R/I
- 5 Narrative, with routing via DODAAC
- 6 Narrative, (SR), for AOE/5, AME/5, ATE/5 transactions only
- 7 Copy a complete ascii message file to the TRANSMIT file

Select an option by number or use keys to select, then press RETURN  
Esc=Main Selection Menu

user id RA702AA

**PROCEDURE:**

Once the BUILD CREATE MESSAGES menu is displayed, the user should select menu option (2) - DATA PATTERN TO DAAS WITH INPUT FROM USER SPECIFIED DISK FILE.

**RESPONSE:**

The DAMES program will display the prompt for the RI

MILIN.BAS Reads a sequential-ASCII-Disk-File of MILS type transactions and builds them into a data pattern message.

Enter TO' Comm R/I and Content Indicator (e.g. RTESTAA IAZZ)  
Press RETURN for default of: RT01000 IAZZ or type in the appropriate Comm R/I.

**PROCEDURE:**

The program will prompt for RI. The user should take the default by pressing the <CR> if they want requisitions to be forwarded to DAASO, and then routed using the Source of Supply Routing Identifier in columns 4-6 of the milstrip line. Requisitions can also be routed to another COMM/RI.

**RESPONSE:**

RT01000/DAAS GENTILE AFS OH

Enter name of Data-File or (RETURN=exit) -->

**PROCEDURE:**

The user should enter TRANSMIT.FLE

**RESPONSE:**

The DAMES SOFTWARE will indicate the number of records appended into the active transmit file.

Now copying transmit To active TRANSMIT file

1 records copied

Do you have more messages to build (Y/N)

**PROCEDURE:**

The user should enter 'N'.

**RESPONSE:**

The program will return to the DAMES COMMUNICATIONS program.

STD Version 2.02

- 1 Build/Create Messages Menu
- 2 Communications Menu (Transmit/Receive Messages)
- 3 TRANSMIT/RECEIVE File Processing
- 4 Help (Instructions/Support)
- 5 Utilities Menu
- 6 Exit to GW-BASIC (basica) Interpreter
- 7 View GW-BASIC Error Codes, explanations
- 8 Exit to DOS

Select an option by number or use keys to select, then press RETURN

user id RA702AA

**PROCEDURE:**

The user should select RECEIVE/TRANSMIT FILE PROCESSING.

**RESPONSE:**

This function will allow the user to view, edit, print, and save the 1348 data prior to transmission. For record keeping and financial management purposes, it is recommended that both a hardcopy and saved file are retained. Once complete, the user should return to the COMMUNICATIONS MENU.

**PROCEDURE:**

The user should select COMMUNICATIONS MENU.

**RESPONSE:**

## Communications Menu

- 1 Transmit/Receive messages using an automatic dial modem
- 2 'AST-3780' Communications using a BELL (201/208) type modem

Select an option by number or use    keys to select, then press RETURN  
Esc=Main Selection Menu

user id RA702AA

**PROCEDURE:**

From the COMMUNICATIONS MENU the user will select menu option (1) -  
TRANSMIT/RECEIVE MESSAGES USING AN AUTODIAL MODEM.

**RESPONSE:**

The DAMES software will automatically dial the DAASO processing facility in Dayton Ohio, and transfer the 1348's which were generated by running the DAILY TASK. If communications are successful, the DAMES program will display a message that the transmission went normally. If the transmission does not go through, the DAMES program will display an error message. A RED box indicates an error, a BLUE box indicates transmission completed normally. Messages or status information, located in your mailbox at the time of transmission, will be received by your activity during this exercise. The following section provides information on feeding status information back into the MICRO-MICS system.

**B. RECEIVING STATUS**  
**REVIEWING STATUS RECEIVED**

Version 2.1 of MICRO-MICS allows the user to view status 2 ways. The procedure will vary based upon the method selected.

**METHOD 1**

1. Go to the UTILITIES MENU. Select Option (2) - DAMES COMMUNICATION.
2. From the DAMES COMMUNICATION MENU select OPTION (1) - DAMES COMMUNICATION.
3. Select Option (2) - COMMUNICATIONS MENU (TRANSMIT/RECEIVE MESSAGES).
4. Select Option (1) - TRANSMIT/RECEIVE MESSAGES USING AN AUTOMATIC DIAL MODEM.
5. The system will dial into DAASO through the modem. The user will see messages on the screen indicating a "special transmit" with no records transmitted. Basically, you will be querying your command's mailbox.
6. The last message on the screen (in a blue box) should indicate a successful transmission. If the box is in red, the transmission was not completed. If a problem is encountered, repeat the transmission again.
7. Once a good transmission is received, use DAMES Software to review/print/save the status. Select Option (3) - TRANSMIT/RECEIVE FILE PROCESSING from the DAMES main menu.
8. From this menu, select option (2) - RECEIVE FILE PROCESSING MENU. From this point, you can view, print, or copy the status file from the program. Version 2.01 of the DAMES communications program allows the user to create both a hard copy, and a disk file (Menu option 4). When ask to specify a file name, enter **REQ\_STAT.TXT**. This file will be automatically saved into the MICROMIC directory.
9. Exit the DAMES communications software by pressing the <ESC> key until the MICRO MICS MAIN menu is displayed.
10. Select the LOGISTICS menu option. When the Logistics menu displays, select the BUILD REQUISITION STATUS menu option.

DATE: 03-29-93	MICRO-MEDICAL INVENTORY CONTROL SYSTEM	TIME: 14:22:03
PROGRAM: STATUS	BUILD REQUISITION	VERS: 2.1

SUPPLY OFFICER FOLLOWUP REQUESTS  
DISPLAY STATUS FILE  
BROWSE STATUS FILE  
APPEND RECEIVE. TO ACTSTAT.TXT  
  
TAP 'F5' KEY TO EXIT

11. Select the APPEND RECEIVE. TO ACTSTAT.TXT menu option. The system will add the current RECEIVE. file to the ACTSTAT.TXT file, and reindex the data.



12. When the process is complete, select DISPLAY STATUS FILE, and enter the requisition number to find out the status. BROWSE STATUS FILE will provide information on all requisitions and status.

**B. RECEIVING STATUS  
REVIEWING STATUS RECEIVED**

Version 2.1 of MICRO-MICS allows the user to view status 2 ways. The procedure will vary based upon the method selected.

**METHOD 2**

1. The second method to view status received from DAASO does not require the user to convert the file to a DISKFILE (REQ\_STAT.TXT). Upon completion of a successful transmission (the blue box in transmission frame says "connection completed normally"), the user should press the <ESC> key until the MICRO-MICS MAIN MENU is displayed. Select LOGISTICS SYSTEM and the LOGISTICS MENU will display. Select BUILD REQUISITION STATUS from the LOGISTICS MENU.

2. Select BROWSE STATUS FILE, and the browse window will display. From this point the user can enter the NSN or DOCUMENT NUMBER for which status is required.

If a partial NSN or DOCUMENT NUMBER is entered, the software will try and find the closest match, and change the select records color to blue. Pushing the ENTER key will bring up the record in full screen mode.

## SALTS TRANSMISSIONS USERS MANUAL

### BACKGROUND

The alternative method to transmit data is via SALTS. SALTS can transmit the data faster, and uses Z-MODEM vice X-MODEM. As with the DAMES transmissions, a back-up and daily processing cycle are completed to develop the replenishment process. The 1348 File is reviewed and saves as TRANSMIT.FLE.

### PROCEDURE:

The user should be logged in, and at the UTILITIES MENU. From the UTILITIES MENU the user should select menu option 2. COMMUNICATIONS MENU.

11/23/93            LOADING - UTIL MENU 2.1            Tuesday

#### UTILITY MENU

1. VIEW REPORTS ALREADY CREATED
2. COMMUNICATIONS MENU
3. GENERATE BARCODES
4. SPECIAL FILE UTILITIES
5. MM 2.2 SPECIAL FILE UTILITIES

USE UP AND DOWN ARROW KEYS TO HIGHLIGHT ITEM AND PRESS <RETURN>

### RESPONSE:

The COMMUNICATIONS MENU shown below will display:

11/23/93            LOADING - UTIL MENU 2.1            Tuesday

#### COMMUNICATIONS MENU

1. DAMES COMMUNICATIONS
1. VIEW    2. EDIT SUP1348.TXT FILE
2. COMM    3. STATUS OF ORDERED ITEMS
3. GENE    4. COPY TRANSMIT FILE TO FLOPPY
4. SPEC    5. S.A.L.T.S.
5. MM 2    6. PROCOMM
7. DOWNLOAD FROM SCANNER

USE UP AND DOWN CURSOR KEYS TO HIGHLIGHT ITEM AND PRESS <RETURN>

### PROCEDURE:

Use the cursor keys to move the selection bar to menu option 5. S.A.L.T.S.

## RESPONSE:

The following screen will display:

```
*** STREAMLINED AUTOMATED LOGISTICS TRANSMISSION SYSTEM ***
      ( S A L T S )
```

```
*** WARNING ***
```

```
UNAUTHORIZED ACCESS TO THIS UNITED STATES GOVERNMENT COMPUTER SYSTEM
AND SOFTWARE IS PROHIBITED BY TITLE 18, UNITED STATES SYSTEM SECTION
1030, FRAUD AND RELATED ACTIVITY IN CONNECTION WITH COMPUTERS.
```

```
Run SALTS
Exit to DOS
```

```
Press UP or DOWN to select an option
Press ENTER to accept or
Press ESC to return to DOS
```

```
*** WARNING ***
```

23 Nov 1993

(Julian Date: 3327)

## PROCEDURE:

Select the RUN SALTS menu option, and push Enter.

## RESPONSE:

The following screen will display:

```
MIC      *** STREAMLINED AUTOMATED LOGISTICS TRANSMISSION SYSTEM ***
          ( S A L T S )                               Rel 2.23a 3300
```

- 1 - PREPARE FILES FOR TRANSMISSION
- 2 - HOLD PREPARED FILES FOR LATER TRANSMISSION
- 3 - SEND AND/OR RECEIVE FILES NOW
- 4 - VIEW ACTIVITY LOGS
- 5 - SYSTEM MAINTENANCE PROGRAMS
- 6 - EXIT TO DOS

23 Nov 1993

(Julian Date: 3327)

15:50:59

```
Technical Support: DSN: 442-5069   Comm: 215-697-5069   (Trouble Calls)
SALTS Admin Office: DSN: 442-1112   Comm: 215-697-1112   (New users, etc)
```

## PROCEDURE:

Select menu option 1. PREPARE FILES FOR TRANSMISSION.

## RESPONSE:

The following screen will display.

MIC                    PREPARE FILES FOR TRANSMISSION                    Rel 2.23a 3300  
                              ( S A L T S )

- 1 - MESSAGES TO OTHER SALTS USERS
- 2 - MILSTRIP TRANSACTIONS
- 3 - PAY DATA FOR DFAS-CL
- 4 - DATABASE INQUIRY FUNCTIONS
- 5 - AVIATION 3-M DATA
- 6 - CARCASS TRACKING (RPT 57/58 ONLY)
- 7 - SOURCE DATA SYSTEM (SDS)
- 8 - ATAC+ TRACKING DATA
- 9 - HAZMAT FILE SUBMISSIONS
- A - AIR FORCE RCAPS DATA
- B - NEWS SERVICE REQUESTS
- X - PREPARATION COMPLETE - RETURN TO MAIN MENU

23 Nov 1993                    (Julian Date: 3327)                    15:55:46  
Technical Support: DSN: 442-5069    Comm: 215-697-5069    (Trouble Calls)  
SALTS Admin Office: DSN: 442-1112    Comm: 215-697-1112    (New users, etc)

**PROCEDURE:**

Select menu option 2 MILSTRIP TRANSACTIONS.

**RESPONSE:**

The following screen will display.

```
PREPARE FILES FOR TRANSMISSION

Indicate source of MILSTRIP files:

      FLOPPY DISK  (A:)
      HARD DISK   (C:)
      SECOND FLOPPY (B:)

Press UP or DOWN to select option
Press ENTER when done or
Press ESC to return to menu
```

**PROCEDURE:**

Use the cursor keys to move the selection pointer to 'HARD DISK', and push enter.

**RESPONSE:**

The following screen will display.

```
Prepare MILSTRIP File for transmission

Enter the location (or path) where the files to be
transferred are located:

Location:      C:\MICROMIC\

IMPORTANT: Do NOT enter the file name in this field!

Example:  Enter C:\ plus the name of the directory
          (ie. C:\MILSTRIP for the \MILSTRIP directory)
```

**PROCEDURE:**

Make sure the path specified is C:\MICROMIC\

## RESPONSE:

After entering data into the LOCATION prompt the following screen will display. The filename prompt will display.

Prepare MMLSTRIP File for transmission

Enter the location (or path) where the files to be transferred are located:

Location: C:\micromic\

Enter the name of the file to be transferred.  
or press ENTER for a list of available files

Filename: transmit.file

The Filename should look something like FILENAME.EXT  
where FILENAME = 1-8 characters (A-Z or 0-9)  
PERIOD = a period (.)  
then EXT = 3 characters (ie. RQN)

## PROCEDURE:

Enter the filename of 'transmit.file'.

## RESPONSE:

The following screen will display:

PKZIP (R) FAST! Create/Update Utility Version 1.1 03-15-90  
Copr. 1989-1990 PKWARE Inc. All Rights Reserved. PKZIP/h for help  
PKZIP Reg. U.S. Pat. and Tm. Off.

Updating ZIP: /SALTS/E/RQN\_FILE.ZIP  
Adding: RQN\_FILE.DIR storing ( 0%), done.

Selected Files:

TANSMIT.FILE

Thought for Today:

Anthony's Law of Force: Don't  
force it, get a larger hammer.

File Preparation Complete.

Press ANY key to continue:

## PROCEDURE:

Press any key to continue.

## RESPONSE:

The following screen will display.

PREPARE FILES FOR TRANSMISSION

Are there additional MILSTRIP  
files to be prepared for  
transmission? (Y/N): Y

Press ESC to return to menu

**PROCEDURE:**

The user should enter 'N'.

**RESPONSE:**

The following screen will display

PREPARE FILES FOR TRANSMISSION

Do you have additional NON-MILSTRIP  
files to be prepared? (Y/N) Y

Press ESC to return to menu

**PROCEDURE:**

The user should enter 'N'.

**RESPONSE:**

The following screen will display.

```
MIC                PREPARE FILES FOR TRANSMISSION
                   ( S A L T S )                Rel 2.23a 3300

1 - MESSAGES TO OTHER SALTS USERS
2 - MILSTRIP TRANSACTIONS
3 - PAY DATA FOR DFAS-CL
4 - DATABASE INQUIRY FUNCTIONS
5 - AVIATION 3-M DATA
6 - CARCASS TRACKING (RPT 57/58 ONLY)
7 - SOURCE DATA SYSTEM (SDS)
8 - ATAC+ TRACKING DATA
9 - HAZMAT FILE SUBMISSIONS
A - AIR FORCE RCAPS DATA
B - NEWS SERVICE REQUESTS
X - PREPARATION COMPLETE - RETURN TO MAIN MENU
```

1 file ready for transmission

24 Nov 1993

{Julian Date: 3328}

11:15:30

Technical Support: DSN: 442-5069    Comm: 215-697-5069    (Trouble Calls)  
SALTS Admin Office: DSN: 442-1112    Comm: 215-697-1112    (New users, etc)

**PROCEDURE:**

Select option X - PREPARATION COMPLETE - RETURN TO MAIN MENU and push Enter.

**RESPONSE:**

The following screen will display:

$M=C$ 

- 1 - PREPARE FILES FOR TRANSMISSION

1 file ready for transmission

(Julian Date: 3328)

11:16:45

Technical Support: DSN: 442-5069

Comm: 215-697-5069

(Trouble Calls)

SALTS Admin Office: DSN: 442-1112

Comm: 215-697-1112

(New users, etc)

### PROCEDURE :

Select menu option 3 SEND AND RECEIVE FILES NOW and push enter.

**RESPONSE :**

The following screen will display:

SEND AND/OR RECEIVE FILES NOW

Select Telephone Number / Transmission Path:

1. 8,442-1107

SALTS AUTOVON

2. 9,1-215-697-1107

SALTS COMMERCIAL

3. 1-215-697-1107#

SALTS INMARSAT

Number of times to retry the call: 3

Please select the telephone Number to be called: 1

Press ESC to abort the call

**PROCEDURE:** Enter the times to retry and the telephone number to be called, and push enter.

**RESPONSE :**

Upon a successful completion of the phone call the following screen will display.

Incoming Files:

Process Incoming Files:

MIC 6504.STA

Please indicate the destination where you would like to save these MILSTRIP files:

FLOPPY DISK (A:)

HARD DISK (C:)

SECOND FLOPPY (B:)

Press UP or DOWN to move highlighted bar.

Press ENTER when selection complete.



## PROCEDURE:

Select the disk/path where the files should be saved, SELECT the INDIVIDUAL FILES OPTION. If the HARD DISK is selected the system will display a prompt asking for the path. THE path to enter is MICROMIC. The file name MICRO MICS is looking for is REQ\_STAT.TXT. In this example, the data was written to the A: floppy disk drive.

## RESPONSE:

The computer will write the data downloaded from the SALTS to the selected drive.

```
Incoming Files:  Process Incoming Files:
MIC_6518.STA      Please indicate the destination where you
MIC_6519.STA      would like to save these MILSTRIP files:

Path: A:\

Should SALTS combine the incoming file(s)
into a SINGLE file?

    COMBINED FILES
    INDIVIDUAL FILES

Press UP or DOWN to move highlighted bar.
Press ENTER when selection complete.
```

## BACKGROUND:

SALTS may also send message files. Below is an example of a message file screen. The same procedure should be followed to save the files.

```
Incoming Files:  Process Incoming MESSAGE Files:
LT3522.MSG       Indicate the function to perform:

                SAVE THIS FILE
                VIEW FILE CONTENTS
                PRINT THIS FILE

Press UP or DOWN to move highlighted bar.
Press ENTER when selection complete.

Original File Information
File Name: (Not Available)
File Size: 977
```

## RESPONSE:

The computer will display the SALTS MAIN MENU upon completion of the transmission process.

```
MIC      *** STREAMLINED AUTOMATED LOGISTICS TRANSMISSION SYSTEM ***
          ( S A L T S )                               Rel 2.24a 3314

1 - PREPARE FILES FOR TRANSMISSION
2 - HOLD PREPARED FILES FOR LATER TRANSMISSION
3 - SEND AND/OR RECEIVE FILES NOW
4 - VIEW ACTIVITY LOGS
5 - SYSTEM MAINTENANCE PROGRAMS
6 - EXIT TO DOS
```

30 Nov 1993

(Julian Date: 3334)

11:19:21

Technical Support: DSN: 442-5069 Comm: 215-697-5069 (Trouble Calls)  
SALTS Admin Office: DSN: 442-1112 Comm: 215-697-1112 (New users, etc)

#### PROCEDURE:

Select menu option 6 - EXIT TO DOS.

#### RESPONSE:

The Micro MICS UTILITY menu will display.

11/30/93

LOADING - UTIL MENU 2.1

Tuesday

#### UTILITY MENU

1. VIEW REPORTS ALREADY CREATED
2. COMMUNICATIONS MENU
3. GENERATE BARCODES
4. SPECIAL FILE UTILITIES
5. MM 2.2 SPECIAL FILE UTILITIES

USE UP AND DOWN CURSOR KEYS TO HIGHLIGHT ITEM AND PRESS <RETURN>

#### PROCEDURE:

Push the <Esc> key or the F5 to exit to the Micro MICS MAIN MENU.

#### RESPONSE:

The Micro MICS MAIN MENU will display.

DATE: 11-30-93 MICRO-MEDICAL INVENTORY CONTROL SYSTEM TIME: 12:15:46  
PROGRAM: MICS MICRO-MICS MAIN MENU VERS: 2.2

LOGISTICS SYSTEM  
FINANCIAL INVENTORY REPORTING  
DAILY PROCESSING CYCLE  
MONTHLY PROCESSING CYCLE  
REINDEX DATA FILES  
BACKUP DATA TO DISKETTE(S)  
UTILITIES MENU  
TAP 'F5' KEY TO EXIT

#### PROCEDURE:

Push the F5 key and exit to the DISK OPERATING SYSTEM (DOS).

#### RESPONSE:

C:\MICROMIC>

#### PROCEDURE:

In this example, all the requisition-status data was written to the A: disk drive. If the DOS DIRectory command is issued (DIR A:) the computer would display the following information:

**RESPONSE:**

Volume in drive A has no label  
Volume Serial Number is 3D57-14F1  
Directory of A:\

```
MIC_6504 STA      4773 11-30-93  10:49a
MIC_6506 STA      6069 11-30-93  10:49a
MIC_6510 STA      3723 11-30-93  10:50a
MIC_6527 STA      3976 11-30-93  10:50a
MIC_6518 STA      3894 11-30-93  10:52a
MIC_6519 STA      1576 11-30-93  10:53a
SLT3522 MSG        977 11-30-93  11:07a
INSTRUC DLM       6018 11-30-93  11:07a
SLT4409 MSG       2014 11-30-93  11:08a
SLT5546 MSG       2743 11-30-93  11:11a
NIN00086 MSG      1324 11-30-93  11:11a
IAE00934 MSG      1941 11-30-93  11:11a
UMF00083 MSG       483 11-30-93  11:12a
JOE      DLM      2592 11-30-93  11:12a
SLT5612 MSG      2037 11-30-93  11:13a
    15 file(s)          44140 bytes
                1410560 bytes free
```

C:\MM2\_2>

The files with and extension (last three characters of the filename) of STA, are the status files. To append the status into Micro MICS issue the followin command:

COPY A:MIC\_6504 STA C:\MICROMIC\REQ\_STAT.TXT

This command places a copy of the status data into the Micro MICS (C:\MICROMIC) subdirectory, and calls the data REQ\_STAT.TXT. Remember, Micro MICS is looking for the file named REQ\_STAT.TXT

**PROCEDURE:**

Reload the Micro MICS program by issuing the 'SUPPLY' command from the DOS level. Follow the normal log in procedures, by entering your STOCK ROOM ID, USERNAME, and PASSWORD.

**RESPONSE:**

The following screen will display.

```
DATE: 11-30-93   MICRO-MEDICAL INVENTORY CONTROL SYSTEM   TIME: 14:57:56
PROGRAM: MASSCR           LOGISTICS MENU                   VERS: 2.2
```

```
RECEIPTS
ISSUES
STOCK RECORDS
DUE-IN MAINT
WAREHOUSE DENIALS
CUSTOMER RETURNS
INVENTORY CHANGES
ON-LINE REPORTS
SECURITY ACCESS
STOCKROOM TABLES
JOB ORDER NUMBERS
TABLE MAINTENANCE
SPECIAL ORDERS
BUILD REQUISITION STATUS
```

TAP 'F5' KEY TO EXIT

**PROCEDURE:**

Select menu option 'BUILD REQUISITION STATUS'

**RESPONSE:**

The following screen will display:

**PROCEDURE:**

```
DATE: 11-30-93   MICRO-MEDICAL INVENTORY CONTROL SYSTEM   TIME: 15:01:58
PROGRAM: STATUS           BUILD REQUISITION                VERS: 2.2
```

```
SUPPLY OFFICER FOLLOWUP REQUESTS
DISPLAY STATUS FILE
BROWSE STATUS FILE
APPEND RECEIVE. TO ACTSTAT.TXT
```

TAP 'F5' KEY TO EXIT

Move the selection pointer to the APPEND RECEIVE. TO ACTSTAT.TXT menu option and push enter.

**RESPONSE:**

The system will add the current REQ\_STAT.TXT file to the ACTSTAT.TXT file, and re-index the data. From this point, use either the BROWSE STATUS FILE, or DISPLAY STATUS FILE menu options to view individual status elements.

## APPENDIX I

# MEDLOG Jr. Operating Instructions

# MEDLOG Jr. Operating Instructions

This appendix provides instructions for users of the Air Force's Medlog Jr. system. More information about the system is available from the Air Force Standard Systems Center at (205) 416-5551 or 416-4213.

## MEDLOGJr Operating Instructions

## 1. System Requirements

MEDLOGJr requires a 100% IBM compatible microcomputer with 512k RAM, MS-DOS 3.2 or greater, fixed hard drive, and a printer capable of user selected condensed print. Also, this system requires sole use of RAM. If there are terminate and stay resident programs residing in RAM, these must be terminated prior to using MEDLOGJr.

## 2. Installation Instructions

MEDLOGJr is supplied on a single double density (360K) disk, in a compressed file. Insert this disk into floppy drive and type A:INSTALL. All necessary working directories will be created.

## 3. Using MEDLOGJr

## A. LOGON AND HELP

NOTE: After installation whenever your computer is turned on you need to change to the MEDLOGJr directory.

- TYPE 'cd\MEDLOGJR' at the c:\ prompt and press the <Enter> key
- Enter 'LOGMENU' or 'LOGMENU M' for laptops with monochrome screens
- Set current date when/if asked
- Default password is 'MEDLOG' (This can be changed)
- The F1 key accesses the help file in most areas within MEDLOGJr.
- Active keys such as Ins, PgUp, and Left are described for you when you use the F2 key
- ALWAYS EXIT MEDLOGJR BEFORE TURNING OFF THE COMPUTER. WORK MAY BE LOST IF THIS BASIC RULE IS IGNORED.

## B. USING MANAGER MENUS

- Designed to provide easy access to data records
- F2 key can be used to retrieve description of function
- Layout is horizontal menu of options and a vertical listing of associated data items
- Use arrow keys to access correct menu and associated data

## C. IMPORTING MASTER RECORDS

- MEDLOGJr master records can be built from a standard ASCII text file that is formatted as follows

DATA	POSITIONS	RULES
STOCK NUMBER	1-15	
NOMENCLATURE	16-40	
ROUTING ID	41-43	
UNIT OF ISSUE	44-45	.....ALPHA ONLY
ADJUSTED UI	47-47	.....ALPHA OR SPACES
FUNCTION ID	48	.....'D' OR 'M' ONLY
UNIT PRICE	49-59	.....SAMPLE ' 12.89' *
ADJUSTED UI PRICE	60-70	
STOCK LEVEL	71-76	
ON HAND QTY	77-82	

\* Decimal must be exactly as shown.

- You do not have to import master records to create your "DATABASE", you can create them as you enter activities order items from you.

#### D. MEDLOGJR TRANSACTION ABBREVIATIONS

- MEDLOGJR transactions are abbreviated as follows:

BOI.....	ESTABLISH BACKORDER
ESD.....	ESTABLISH DUE-IN
IAG.....	INVENTORY ADJUSTMENT GAIN
IAL.....	LOSS
NRI.....	NORMAL/ROUTINE ISSUE
KRD.....	CANCEL DUE-IN
RND.....	RECEIVE OFF-LINE SHIPMENT
RBD.....	RECEIVE DUE-IN SHIPMENT
SQI.....	SHOPPING GUIDE ISSUE
SP2.....	STOCK NUMBER CHANGE
TIG.....	TURN-IN GAIN

#### E. OUTPUT FILE MANAGEMENT

- MEDLOGJR uses a directory called "\MEDLOGJR\OUTPUT" to store copies of issue lists, requisitions, and monthly transaction history.
  - MEDLOGJR will never remove any of these files and must be deleted by the user when obsolete or no longer required
  - To review the c:\medlogjr\output directory key in "dir" and <ENTER>
  - To delete a file key in (at the c:\medlogjr\output prompt) "del filename.ext"
- Example: To delete a requisition file you have confirmed status on key in  
 "del S9M3312.BQN" and press the <ENTER> key.  
 To delete an old monthly transaction file, key in:  
 "del JANCOM.DBF" and press the <ENTER> key.
- You can identify files in the output directory as follows:
- |                  |  |
|------------------|--|
| JANCOM.DBF.....  | MONTHLY TRANSACTION HISTORY FROM JANUARY       |
| S9M3312.BQN..... | MILSTRIP REQUISITIONS FOR S9M ON THE 3312 DAY  |
| ISS3312.003..... | THE THIRD ISSUE LIST PRINTED ON THE 3312 DAY   |
| BSS3312.PRT..... | PRINTABLE REQUISITIONS FOR BSS ON THE 3312 DAY |

#### F. RECOVERY FROM HARDWARE FAILURE

- MEDLOGJR provides a backup and restore option.
- Backup should be accomplished as often as required to reestablish a current working base for recovery purposes. The safest is a daily backup, but WORKLOAD SHOULD BE CONSIDERED IN MAKING THIS MANAGEMENT DECISION.
- The original MEDLOGJR distribution floppy and the most recent MEDLOGJR backup diskette will be required to process a recovery.
- Use the MEDLOGJR distribution floppy to install MEDLOGJR, then select the restore option from the utility menu and load your most current data backup.

#### G. DAMES

##### A. INTERFACE WITH MEDLOGJR AND DAMES

*(Data Automated Message Exchange System)*

- The DAMES program should be installed per instructions received with the DAMES installation disk and all files appropriately prepared for interface and the DAMES manual printed, read, and understood.
- Processing outgoing requisitions through DAMES will require the output file(s) to be copied to the DAMES directory.
- To find the file to copy, exit MEDLOGJR and change the directory to c:\MEDLOGJR\OUTPUT by entering "cd medlogjr\output" <ENTER>
- At the c:\MEDLOGJR\OUTPUT directory key in "DIR" and press the <ENTER> key.
- Find the Milstrip requisition file(s) for the day you are processing and copy this (these) file(s) to the DAMES directory.  
 Ex: "copy S9M3312.rqn c:\dames" <ENTER>
- When all copy commands are complete change to the DAMES directory  
 Ex: "cd DAMES" <ENTER>
- At the c:\DAMES prompt key in "DAMES" <ENTER> and the DAMES program will be executed.



8. CREATING MILSTRIP REQUISITIONS FROM MEDLOGJR FILES

- At the DAMES Main Menu select Option 1 (BUILD/CREATE MESSAGES MENU)
- Next select Option 2 (DATA-PATTERN TO DAAS WITH INPUT FROM USER SPECIFIED DISKFILE)
- ~~Enter the Comm R/I and Content Indicator of (ENTER) for default Comm R/I and Content Indicator.~~
- Enter the name of the diskfile you copied to the DAMES directory
- If you have more files enter 'Y', when done enter 'N'
- To get a 'hard' copy of your outgoing requisitions select DAMES TRANSMIT File Processing Menu Option 2 (Print all active records (Hardcopy))
- Now you choose whether to transmit or backup on diskette for delivery to a transmission site. Follow instructions provided by DAMES.

APPENDIX J

Marine Corps Asset Tracking  
and Logistics Automation  
System (ATLASS)  
Operating Instructions

# Marine Corps Asset Tracking and Logistics Automation System (ATLASS) Operating Instructions

This appendix provides users with instructions for the U.S. Marine Corps' ATLASS system. Users seeking additional documentation or instruction may contact the Office of Medical Logistics Plans and Policy, Headquarters, U.S. Marine Corps, at (703) 696-1051 or 696-1061.

## DAMES COMMUNICATIONS MENU

### BACKGROUND

The Defense Automatic Addressing System Office (DAASO) distributes the DAASO Automated Message Exchange System (DAMES). The Dames software is acquired by contacting DAASO at DSN 986-5914 or Commercial (513)296-5914, and requesting the software. The sample cover letter, shown below, can be FAXed to DAASO to expedite processing.

Sample letter:

### UNIT ADDRESS

From: Commanding Officer, \_\_\_\_\_  
To: Commander, Defense Automated Address System Office,  
Dayton, Ohio

Subj: REQUEST FOR SOFTWARE IN SUPPORT OF ASSET TRACKING FOR  
LOGISTICS AND SUPPLY SYSTEM (ATLASS)

1. Request a copy of the DAMES software, User ID and a Routing indicator be forwarded to the following address:

Director  
Naval Medical Data Services Center Detachment  
6500 Hampton Blvd., Bldg. C  
Norfolk, VA. 23508-1298

2. Please send on 3.25" high density disks.

3. Point of contact is \_\_\_\_\_ at DSN XXX-XXXX or commercial (XXX)XXX-XXXX.

CO's signature, or whoever  
is acting.

## DAMES COMMUNICATIONS cont.

When your site is ready to transfer requisitions electronically, to DAASO, the following items are required:

1. A 1200 baud AT compatible modem.

Recommended modems are:

1. Zenith 2400
  2. CTS 2424ADH Datacomm.
  3. Multitech 224E (Series)
2. A commercial phone line.
  3. GWBasic, Basica, or Qbasic, (Basica needed for all Zenith Data systems computers)
  4. The DAMES software, installed.
  5. A DAASO account, and Routing Indicator.

To obtain the dames software, account, and Routing Indicator (R/I) each site must FAX ((513)296-5758) or write DAASO requesting an account. The letter or FAX must be on command letterhead. Each site should check their mailbox once a week to obtain status on the items ordered. The easiest way to do this, is to transmit a blank Milstrip.dat file, and then process (print out) the RECEIVE file.

For help with the DAMES software call the Detachment (804)445-9595 or call DAASO at (513)296-5914.

## **USER'S MANUAL FOR ATLASS/DAASO INTERFACE**

**REFERENCE:** DAMES Program Manual

**PURPOSE:** The purpose of this addendum is to provide basic instructions to the end user on how to electronically transfer information from the ATLASS system to the DAASO system using the DAMES software.

### **BACKGROUND STEPS PRIOR TO TRANSMISSION**

#### **PROCEDURE:**

1. Always backup your programs and data files prior to implementing a new enhancement or upgrade.
2. Backups can be accomplished via an installed tape drive, or using conventional disks. Using floppy disks will take over 15 to 20 using the 1.44 Meg, 3.25" disks! Be sure they are write protected after you have backed up your data and marked as the "MASTER" disks (or tape). On tape backups, move the sliding "RECORD" tab towards the center of the tape.

## A. INITIATING AN ORDER

Asset Tracking For Logistics And Supply System

# ATLASS

Developed By : Information Resources Management Directorate (IRMD)

Commander (B15)  
Marine Corps Logistics Base  
814 Radford Blvd  
Albany, GA 31704-1128

BSN : 567-6292/6282  
Comm : 912-439-6292/6282  
FAX : 567-6251  
912-439-6521

Activity Code :

Password:

### 1. PROCEDURE:

Enter the ATLASS system as described in the Users Manual for processing new requisitions.

MAIN MENU	ATLASS VERSION 1.2.9 USING UNIT	DATE 14 JAN 1994
1		TIME 06:59:46 \
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLASS	F3 F8
	F4 F9-TOOLS	F5 F10-ACCEPT

MAIN MENU
1. Transaction Data Entry
2. Special Processes
3. External Interfaces
4. Daily Cycle
5. Transaction Maintenance
6. Send Out Transaction
7. Reports
8. System Maintenance
1

### 2. PROCEDURE:

Select '1', Transaction Data Entry and press the Enter key.





MILSTRIP TRANSACTIONS		ATLASS VERSION 1.2.9 USING UNIT		DATE 14 JAN 1994	
1.1.2				TIME 07:00:06	
F1-HELP F6-PICK LIST		F2 F7-EXIT ATLASS		F3 F8-CLEAR FIELD	
				F4 F9-TOOLS	
				F5 F10-ACCEPT	

BIC	RIC	MS	MSM			U/I	QTY	AC	JD	SERIAL NUMBER	
ABA							---	M97111	4814	8881	
DC	SUF-ADD	SC	FC	DIST	WSC	PROJ	PRI	RDB	ADU	CNC	
PCC	CC		TAM/ERO		PURP						
					A						

## 5. PROCEDURE:

This is the data entry screen for your new requisitions. If the ATLASS program has been set up correctly you will notice that the following fields are already filled in;

RIC, MS, AC, JD, SERIAL NUMBER, DC, SC, FC, DIST, WSC, PURP

Notice the Function keys that are available. When in a field and you are unsure of the requirements, pressing the "F6" key will provide you with a listing of what is available. After you have entered your requisitions you press the "F10" key. You press this key after every requisition you fill. Press the "ESC" key until you are back at the main menu.

MAIN MENU	ATLASS VERSION 1.2.9 USING UNIT	DATE 14 JAN 1994
1		TIME 07:00:38 \
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLASS	F3 F8 F4 F9-TOOLS F5 F10-ACCEPT

MAIN MENU
1. Transaction Data Entry 2. Special Processes 3. External Interfaces 4. Daily Cycle 5. Transaction Maintenance 6. Send Out Transaction 7. Reports 8. System Maintenance
4

#### 6. PROCEDURE:

From the main menu you would select 4, Daily Cycle, and press the Enter Key..

MAIN MENU	ATLASS VERSION 1.2.9 USING UNIT	DATE 14 JAN 1994
1		TIME 07:01:23 \
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLASS	F3 F8 F4 F9-TOOLS F5 F10-ACCEPT

MAIN MENU
1. Transaction Data Entry 2. Special Processes 3. External Interfaces 4. Daily Cycle 5. Transaction Maintenance 6. Send Out Transaction 7. Reports 8. System Maintenance
5

#### 7. PROCEDURE:

Select number 4, Daily Cycle, and press the Enter key. When you run the Daily Cycle, you will get a message on the screen, "Running Daily Cycle, Do Not Interrupt..."

MAIN MENU	A T L A S S VERSION 1.2.9 USING UNIT	DATE 14 JAN 1994
1		TIME 07:03:58 1
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLAS	F3 F8
	F4 F9-TOOLS	F5 F10-ACCEPT

MAIN MENU	
1. Transaction Data Entry	
2. Special Processes	
3. External Interfaces	
4. Daily Cycle	
5. Transaction Maintenance	
6. Send Out Transaction	
7. Reports	
8. System Maintenance	6

#### 8. PROCEDURE:

Once you've ESCaped back to the main menu you will select "6" to Send Out your Transaction.

Cour Export	A T L A S S VERSION 1.2.9 USING UNIT	DATE 14 JAN 1994
1.6		TIME 07:04:11 \
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLAS	F3 F8
	F4 F9-TOOLS	F5 F10-ACCEPT

COURIER MENU	
1. Preview Courier Transactions	
2. Create Courier Disks	
3. Naval Messages	
4. Restart	1

#### 9. PROCEDURE:

You can use this menu to preview your transactions before sending them to ensure that they are correct. You would then select "2" to Create the Courier Disks and press Enter.

Preview Courier	ATLASS VERSION 1.2.9 USING UNIT	DATE 14 JAN 1994
1.6.1		TIME 07:04:19 \
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLASS	F3 F8 F4 F9-TOOLS F5 F10-ACCEPT

# USING UNIT SUPPORTED BY A SMU

1. Atlaxs Courier
2. Atlaxs Status
3. Milstrip
4. Mimms
5. Sassy
6. Fiscal
7. All of the Above
8. Data Entry

3

## 10. PROCEDURE:

Since you are transmitting information you will select "3" to create a Courier Diskette. Notice the header, this states that this unit would be sending the Courier diskette to the Sassy Management Unit (SMU) to update their files. If the using unit were not supported by a central supply point, it would show "USING UNIT NOT SUPPORTED BY A SMU". It is recommended that you create, and keep on file, the Atlaxs disks, Milstrip, Sassy, and Fiscal at a minimum. Mimms deals with the Marine Corps equipment readiness and is addressed using an Equipment Repair Order (ERO). Now that you have your Milstrip Courier diskette it is time to exit from ATLASS to use the DAMES software. Press the F7 key and exit.

After changing to the DAMES directory, or pressing the corresponding menu function from your computers menu system you will be presented with the DAMES main menu as shown below.

# DAMES

STD Version 2.85

- 1 Build/Create Messages Menu
- 2 Communications Menu (Transmit/Receive Messages)
- 3 TRANSMIT/RECEIVE File Processing
- 4 Help (Instructions/Support)
- 5 Utilities Menu
- 6 Exit to BASIC/CLASSIC/Basic Interpreter
- 7 View BASIC Error Codes, explanations
- 8 Exit to DOS

Select an option by number or use F4 keys to select, then press RETURN

user 14 - MSG101A

## 11. PROCEDURE:

This is the main menu for the DAMES system. Your first selection from this screen will be '1', TRANSMIT/RECEIVE File Processing.

Build/Create Messages Menu

- 1 Data-Pattern, To DMS, with CRT input using a 1348 form
- 2 Data-Pattern, To DMS, with input from a user-specified disk file
- 3 Same as #1, (SR) Selective Routing
- 4 Narrative, with routing via Comm E/I
- 5 Narrative, with routing via DDMAC
- 6 Narrative, (SR), for AGE/S, AGE/S, AGE/S transactions only
- 7 Copy a complete ascii message file to the TRANSMIT file

Select an option by number or use F4 keys to select, then press RETURN  
-Exit-This Selection Menu-

user 14 - MSG101A

## 12. PROCEDURE:

User would select '2', for input from Milstrip Courier

MILIM.DAS Reads a sequential-ASCII-Disk-File of MILS type transactions and builds them into a data pattern message.

Enter TO' Comm E/I and Content Indicator (e.g. KTESTAA 1A22)  
Press RETURN for default of: KTB1888 1A22

KTB1888/DAS GENTILE AFS OH

Enter name of Data-File or (RETURN-exit) --> A:\MILSTRIP.DAT

### 13. PROCEDURE:

Program will prompt user for an input filename. The Milstrip Courier will contain the above named file on it. Be sure that you type all of the characters as they appear after the ">".

The DAMES system will indicate the number of records appended to the active transmit file.

The DAMES software will prompt for more messages to build. The response to this is "N".

The program will exit to the DAMES Main Menu.

# DAMES

STD Version 2.85

- >1 Build/Create Messages Menu
- 2 Communications Menu (Transmit/Receive Messages)
- 3 TRANSMIT/RECEIVE File Processing
- 4 Help (Instructions/Support)
- 5 Utilities Menu
- 6 Exit to BASIC/GNUSIC/Basic Interpreter
- 7 View BASIC Error Codes, explanations
- 8 Exit to DOS

Select an option by number or use F1 keys to select, then press RETURN

EXIT 14 - NEWLIN.

### 14. PROCEDURE:

The user would select "3" from the Main Menu.

**TRANSMIT/RECEIVE File Manager Menu**

- 1 TRANSMIT File Processing Menu [ 6 active records]
- 2 RECEIVE File Processing Menu [ 8 active records]
- 3 Exit to the DAMES Main Selection Menu

Select an option by number or use fl keys to select, then press RETURN

15. PROCEDURE:

User would select "1" to view and edit transmit file data. Any corrections would be done at this time.

# DAMES

STD Version 2.05

- 1 Build/Create Messages Menu
- 2 Communications Menu (Transmit/Receive Messages)
- 3 TRANSMIT/RECEIVE File Processing
- 4 Help (Instructions/Support)
- 5 Utilities Menu
- 6 Exit to BASIC/CLASIC/Basic Interpreter
- 7 View BASIC Error Codes, explanations
- 8 Exit to DOS

Select an option by number or use fl keys to select, then press RETURN

User ID :BMS100.

16. PROCEDURE:

User would select "2" to transmit the information already processed.

## Communications Menu

- 1 Transmit/Receive messages using an automatic dial modem
- 2 'AST-3788' Communications using a BELL (281/288) type modem

### 17. PROCEDURE:

User would select '1'. The DAMES program will automatically dial DAASO and send the file. If there is a problem with the transmission, the program will warn you that it terminated abnormally.

Select an option by number or use ↑↓ keys to select, then press RETURN  
Esc=Main Selection Menu

user id -RAB01AA-

During transmission the user will see the below listed screen.  
Changing settings for the modem is done in the utilities menu.

[id: RAB01AA]  
Opening COM-PORT. COM1:1200,N,8,1,CS15000,B315000,RT10240

Provided all went as scheduled, you will receive a successful transmission status.

[Esc = CANCEL]



DAILY CYCLE MENU	ATLASS VERSION 1.2.9 USING UNIT	DATE 14 JAN 1994
1.4		TIME 07:00:53 /
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLASS	F3 F8
	F4 F9-TOOLS	F5 F10-ACCEPT

DAILY CYCLE MENU
1. Collect Incoming Diskette Transactions 2. Continuous Processing 3. Summaries 4. Storage Orders / Mru's 5. Restart
2

## 2. PROCEDURE:

Select "1" from the Daily Cycle Menu.

DAILY CYCLE MENU	ATLASS VERSION 1.2.9 USING UNIT	DATE 19 JAN 1994
1.4		TIME 16:11:04 -
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLASS	F3 F8
	F4 F9-TOOLS	F5 F10-ACCEPT

SELECT DISK DRIVE
A Drive      B Drive
[A]

## 3. PROCEDURE:

Select the appropriate drive letter for diskette.

## B. REQUESTING STATUS

Status is automatically returned by DAMES. If faster status is required use the following procedure, otherwise use the DAMES program to print your receive file.

MAIN MENU	ATLASS VERSION 1.2.9 USING UNIT	DATE 14 JAN 1994
1		TIME 06:59:46 \
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLASS	F3 F8
F4 F9-TOOLS	F5 F10-ACCEPT	

MAIN MENU	
1. Transaction Data Entry	
2. Special Processes	
3. External Interfaces	
4. Daily Cycle	
5. Transaction Maintenance	
6. Send Out Transaction	
7. Reports	
8. System Maintenance	1

### 1. PROCEDURE:

Select "4", Daily cycle from the Main menu.

DAILY CYCLE MENU	ATLASS VERSION 1.2.9 USING UNIT	DATE 19 JAN 1994
1.4		TIME 16:11:13 /
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLASS	F3 F8 F4 F9-TOOLS F5 F10-ACCEPT

Insert Diskette in Drive A:

Press Return To Continue  
Press Escape To Abort

#### 4. PROCEDURE:

Follow the on screen directions.

After the file is uploaded you will move back to the Main Menu.

REPORTS	ATLASS VERSION 1.2.9 USING UNIT	DATE 19 JAN 1994
1.7		TIME 16:18:13 /
F1-HELP F6	F2 F7-EXIT ATLASS	F3 F8 F4 F9-TOOLS F5 F10-ACCEPT

#### GENERATE REPORTS

- |                     |                     |
|---------------------|---------------------|
| 1. Asset Visibility | 6. History File     |
| 2. Purpose Code 'A' | 7. Document Control |
| 3. Purpose Code 'C' | 8. TechData         |
| 4. Locator File     | 9. AB HOC           |
| 5. Suspense File    | 0. Management       |

6

#### 5. PROCEDURE:

Select "6", History File.

History Reports	ATLASS VERSION 1.2.9 USING UNIT	DATE 19 JAN 1994
1.7.6		TIME 16:18:23 \
F1-HELP F6	F2 F7-EXIT ATLASS	F3 F8
	F4 F9-TOOLS	F5 F10-ACCEPT

HISTORY REPORTS	
1. Daily	1
2. Cumulative	

# 6. PROCEDURE:

Select "1 or 2" as appropriate, usually Cumulative. It would be unlikely that you would receive status, (in theater), back the same day that you sent it out.

Cumulative History Report	ATLASS VERSION 1.2.9 USING UNIT	DATE 19 JAN 1994
1.7.6		TIME 16:18:52 1
F1-HELP F6	F2 F7-EXIT ATLASS	F3 F8
	F4 F9-TOOLS	F5 F10-ACCEPT

Cumulative History Reports	
1. Men	1
2. Doctor	

# 7. PROCEDURE:

1.7.1005 type of index that you want the report to list by.  
select

Cumulative History Report	A T L A S S VERSION 1.2.9 USING UNIT	DATE 19 JAN 1994		
1.7.6		TIME 16:18:56 1		
F1-HELP F6-PICK LIST	F2 F7-EXIT ATLAS	F3 F8	F4 F9-TOOLS	F5 F10-ACCEPT

### History Cumulative Report by NSN

NSN

#### Data Entry Options:

- Blank - List all NSNs on Trndlist File
- Partial - List all NSNs with that criteria
- Full - List only that specific NSN

### 8. PROCEDURE:

Select the data you want to view. For example, if you wished to view a specific master NSN, you could type in "6505-01" and press the enter key. You will get a list of all NSN's that match the criteria "6505-01" and all the others in the master database, until "6506" or "6505-02" are reached. You will then be asked how you want the data reported.

DAILY HISTORY REPORT	A T L A S S VERSION 1.2.9 USING UNIT	DATE 19 JAN 1994		
1.7.6		TIME 16:18:29 /		
F1-HELP F6	F2 F7-EXIT ATLAS	F3 F8	F4 F9-TOOLS	F5 F10-ACCEPT

### CHOOSE REPORT DESTINATION

- 1. Console
- 2. Printer

1

### 9. PROCEDURE:

11

select 11 of 2" as appropriate.

# Summary:

The system will report out as you requested. This will give you all status that is available, including "BB". When you uploaded the courier diskette the system automatically checks the document number for a matching number in your main database file and appends the information. The History Report will show you what document numbers match your files, as well as those that do not. This will allow you to inform the source of supply that the document number was misrouted, or incorrect. For more in depth information on how the system is set up and operates, see the User's Manual for the ATLASS system. Below is an example of a blank History report as shown on the screen or printer.

DAILY HISTORY REPORT		ATLASS		DATE 19 JAN 1994	
1.7.6		VERSION 1.2.9		TIME 16:19:51 /	
		USING UNIT			
F1-HELP	F2	F3	F4	F5	
F6	F7	F8	F9	F10	

## ATLASS REPORT VIEWER

History.TXT

DAILY HISTORY REPORT  
M97111 19 JAN 1994 16:19:51

R	DIC	STAT	AC	DATE	SERN	S	RIC	RMSN	TrSasDt	UI	QTY	FRI	PRF	TAM1
---	-----	------	----	------	------	---	-----	------	---------	----	-----	-----	-----	------

[F1] Help [F4] + + PgUp PgDn scroll [Enter] Select [Esc] Prev